



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 157126

TO: Sarvamangala Devi
Art Unit: 1645
Location: REM 3C18
Serial Number: 10/054536

Tuesday, June 21, 2005

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
beverly.shears@uspto.gov

Search Notes

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157126

Shears, Beverly

From: Devi, Sarvamangala
Sent: Friday, June 17, 2005 7:42 AM
To: Shears, Beverly
Subject: 10/054,536

Beverly:

In application 10/054,536, please perform a sequence search for SEQ ID NO: 2 in commercial and pending databases.

Thanx.

S. DEVI, Ph.D.
AU 1645
Rems - 3C18

BEST AVAILABLE COPY

Date completed: _____	Search Site	Vendors
Searcher: <u>Beverly e 2528</u>	_____ STIC	_____ IG
Terminal time: _____	_____ CM-1	_____ STN
Elapsed time: _____	_____ Pre-S	_____ Dialog
CPU time: _____	Type of Search	_____ APS
Total time: _____	_____ N.A. Sequence	_____ Geninfo
Number of Searches: _____	_____ A.A. Sequence	_____ SDC
Number of Databases: _____	_____ Structure	_____ DARC/Questel
	_____ Bibliographic	_____ Other <u>CGN</u>

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 19, 2005, 15:45:05 ; Search time 3604 Seconds
(without alignments)
10043.298 Million cell updates/sec

Title: US-10-054-536-2
Perfect score: 747
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext. 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:★

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3:  gb_in:*
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6:  gb_pat:*
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10: gb_ro:*
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12: gb_sy:*
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14: gb_vi:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %		Length	DB	ID	Description
		Match					
1	747	100.0	747	6	E27637	E27637 Recombinant	
2	747	100.0	900	6	AR182149	AR182149 Sequence	
3	747	100.0	1632	6	CQ875887	CQ875887 Sequence	
4	747	100.0	1632	9	HOSA16576	Y16576 Homo sapien	
5	747	100.0	1638	6	CQ875888	CQ875888 Sequence	
6	747	100.0	1638	6	CQ875891	CQ875891 Sequence	
7	747	100.0	1638	6	CQ875893	CQ875893 Sequence	
8	747	100.0	1638	9	HOSA16577	Y16577 Homo sapien	
9	747	100.0	1638	9	HOSA16580	Y16580 Homo sapien	
10	747	100.0	1638	9	HOSA16581	Y16581 Homo sapien	
11	747	100.0	3605	6	E27636	E27636 Recombinant	
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13	747	100.0	3605	9	HSMBPC	X15422 Human mRNA	
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18	745.4	99.8	1638	6	CQ875892	CQ875892 Sequence	
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22	635.8	85.1	1188	6	I09220	I09220 Sequence 1
23	599	80.2	678	6	CQ722821	CQ722821 Sequence
24	587.8	78.7	805	9	MACMBPC	L43911 Macaca mula
25	444.6	59.5	1409	4	D73408	D73408 Bos taurus
26	406.6	54.4	723	4	AF164576	AF164576 Sus scrof
27	395	52.9	1010	6	E37364	E37364 Swine serum
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29	374.8	50.2	1116	10	S42294	S42294 mannose-bin
30	374	50.1	1254	9	HSMBP1D	X15957 H.sapiens M
31	374	50.1	3336	9	HSMBP3CA3	AF080510 Homo sapi
32	373.2	50.0	1069	10	MUSRRFA	D11440 Mus musculu
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34	372.4	49.9	374	9	AY707496S4	AY707499 Gorilla g
35	372.4	49.9	102532	9	AL731550	AL731550 Human DNA
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42	353.2	47.3	374	9	AY707504S4	AY707507 Hylobates
43	351.6	47.1	374	9	AY707500S4	AY707503 Hylobates
44	337.2	45.1	374	9	AY707516S4	AY707519 Presbytis
45	334	44.7	374	9	AY707476S4	AY707479 Papio pap

ALIGNMENTS

RESULT 1	E27637	LOCUS	DEFINITION	E27637	Recombinant human mannan binding protein and process for producing the same.	747 bp	DNA	linear	PAT 18-JUN-2001
	ACCESSION	E27637	VERSION	E27637.1	GI:13018239				
	KEYWORDS	JP 1999206378-A/2.	SOURCE	unidentified					
	ORGANISM	unclassified.	REFERENCE	1	(bases 1 to 747)				
	AUTHORS	Nobutaka,W.	TITLE	Recombinant human mannan binding protein and process for producing the same					
	JOURNAL	Patent: JP 1999206378-A 2 03-AUG-1999;	COMMENT	FUSO YAKUHH KOGYO KK					
		OS Unidentified		PN JP 1999206378-A/2					
		PD 03-AUG-1999		PF 23-JAN-1998 JP 1998011864					
		PR		PI NOBUTAKA WAKAMIYA					
		PC C12N15/09,C07K14/47,C12P21/02//A61K38/00,(C12N15/09,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,A61K37/02,(C12N15/00,C12R1:91)		CC Strandedness: Double;					
		CC Topology: Linear;		FH Key	Location/Qualifiers				
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	Best Local Similarity	100.0%;	Pred. No. 7.5e-209;						
	Matches 747;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;				
QY	1	ATGTCCTGTTCATCACTCCCTCTCCTTCTCCTGAGTATGGTGCGACGCCTTACTCA	60						

[illegible]

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RESULT 2
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LOCUS      AR182149          900 bp      DNA      linear      PAT 20-APR-2002
DEFINITION Sequence 1 from patent US 6337193.
ACCESSION  AR182149
VERSION     AR182149.1  GI:20225065
KEYWORDS    .
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 900)
AUTHORS    Tully,R.E., Caltagirone,G.Thomas., Moyer,S.S. and Ronning,M.T.
TITLE       Expression of manose-binding protein in methylotrophic yeast
JOURNAL     Patent: US 6337193-A 1 08-JAN-2002;
FEATURES    Location/Qualifiers
             source          1..900
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Query Match      100.0%;   Score 747;   DB 6;   Length 900;

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Qy	61	GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCT	120
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Qy	121	CCAGGCATCAACGGCTTCCAGGCAAGATGGGCGTGATGGCACCAAGGAGAGAAAAGGGG	180
Db	186	CCAGGCATCAACGGCTTCCAGGCAAGATGGGCGTGATGGCACCAAGGAGAGAAAAGGGG	245
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Qy	481	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTGAGAAATCTCATCAAGGAG	540
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Qy	541	GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600
Db	606	GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	665
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Db	666	AATAGACTGACCTACACAAAACCTGGAAACGAGGGTGAACCCAAATGCTGTTCTGATGAA	725
Qy	661	GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCAT	720
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Qy	721	CTGGCCGCTCTGTGAGTTCCCTATCTGA	747
Db	786	CTGGCCGCTCTGTGAGTTCCCTATCTGA	812
RESULT 3			
LOCUS CQ875887			
DEFINITION Sequence 20 from Patent WO2004065626.			
ACCESSION CQ875887			
VERSION CQ875887.1 GI:53789630			
KEYWORDS Homo sapiens (human)			
SOURCE Homo sapiens			
ORGANISM Homo sapiens			
REFERENCE 1 Garred,P., Madsen,H.O. and str M,J.			
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
TITLE Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
JOURNAL A method of sepsis prognosis			
Patent: WO 2004065626-A 20 05-AUG-2004;			
Rigshospitalet (DK); Kobenhavns Amt (DK)			
FEATURES Location/Qualifiers			

/note="polymorphism in different MBL haplotypes"

ORIGIN	Query Match	Score	DB	Length
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QY	61	GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTCAATTGCCCTGTAGCTCT	120	
DB	946	GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTCAATTGCCCTGTAGCTCT	1005	
QY	121	CAAGGCATCAACGGCTTCCCAGGCCAAAGATGGCGCTGATGGCCACCAAGGAGAAAGGGG	180	
DB	1006	CAAGGCATCAACGGCTTCCCAGGCCAAAGATGGCGCTGATGGCCACCAAGGAGAAAGGGG	1065	
QY	181	GAACCAAGGCCAAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCCTCCAGGA	240	
DB	1066	GAACCAAGGCCAAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCCTCCAGGA	1125	
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAGGAGACCTCGAAAAAAGT	300	
DB	1126	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAGGAGACCTCGAAAAAAGT	1185	
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QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGCCAAACAAAGTTGGGAACAAGTTCTTCCTG	420	
DB	1246	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGCCAAACAAAGTTGGGAACAAGTTCTTCCTG	1305	
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QY	481	TCTGTGGCCACCCCAGGAATGCTGCAGAGAAATGAGGCCATTTCAGAAATCTCATCAAGGAG	540	
DB	1366	TCTGTGGCCACCCCAGGAATGCTGCAGAGAAATGAGGCCATTTCAGAAATCTCATCAAGGAG	1425	
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DB	1426	GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGCACAGGA	1485	
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DB	1486	AATAGACTGACCTACACAAAACCTGGAAACGAGGGTGAACCCAAACAATGCTGGTTCGATGAA	1545	
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DB	1546	GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	1605	
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TITLE	A method of sepsis prognosis									
JOURNAL	Patent: WO 2004065626-A 21 05-AUG-2004;									
FEATURES	Rigshospitalet (DK); Kobenhavns Amt (DK)									
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RESULT 5
 CQ875888
 LOCUS
 DEFINITION
 ACCESSION
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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 Garred.P.; Madsen,H.O. and str M,J.
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 Sequence 21 from Patent WO2004065626.
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 CQ875888.1 GI:53789631
 Homo sapiens (human)
 Homo sapiens
 linear
 DNA
 1638 bp
 PAT 04-OCT-2004


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QY      721   CTGGCCGCTGTGAGTTCCTATCTGA 747
Db      1612  CTGGCCGCTGTGAGTTCCTATCTGA 1638

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DEFINITION Homo sapiens gene encoding mannan/mannose-binding protein, variant LYPA.
ACCESSION Y16577
VERSION   Y16577.1  GI:59111791
KEYWORDS  mannose-binding lectin; mbl gene.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS   Madsen,H.O., Satz,M.L., Hogh,B., Svejgaard,A. and Garred,P.
TITLE      Different molecular events result in low protein levels of mannan-binding lectin in populations from southeast Africa and South America
JOURNAL    J. Immunol. 161 (6), 3169-3175 (1998)
MEDLINE    98414317
PUBMED     9743385
REFERENCE 2 (bases 1 to 1638)
AUTHORS   Madsen,H.O.
TITLE      Direct Submission
JOURNAL    Submitted (16-FEB-1998) H.O. Madsen, Department of Clinical Immunology, Section 7631, National University Hospital, Tagensvej 20, DK-2200 Copenhagen, DENMARK
COMMENT    Related sequences X15954, X15955, X15956, X15422.
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ORIGIN
Query Match      100.0%; Score 747; DB 9; Length 1638;
Best Local Similarity 100.0%; Pred. No. 8.2e-209;
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QY      241   AATCCAGGGCCTTCTGGGTCAACGAGCACCAAGGGCCAAAAGGAGACCCCTGGAAAAGT 300
Db      1132  AATCCAGGGCCTTCTGGGTCAACGAGCACCAAGGGCCAAAAGGAGACCCCTGGAAAAGT 1191
QY      301   CCGGATGGTGATAGTAGCCTGGCTGCCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
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Db      1252  CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAAACAAGTTCTTCCTG 1311
QY      421   ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 480
Db      1312  ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 1371
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QY      541   GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTGTGGATCTGACAGGA 600
Db      1432  GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTGTGGATCTGACAGGA 1491
QY      601   AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCCAACAATGCTGGTTCTGATGAA 660
Db      1492  AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCCAACAATGCTGGTTCTGATGAA 1551
QY      661   GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 720
Db      1552  GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 1611
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QY 721 CTGGCCGCTGTGAGTTCCTCTATCTGA 747

Db 1612 CTGGCCGCTGTGAGTTCCTCTATCTGA 1638

RESULT 9

HOSA16580 1638 bp DNA linear PRI 17-SEP-1999

LOCUS

DEFINITION Homo sapiens gene encoding mannan/mannose-binding protein, variant LXP.A.

ACCESSION Y16580

VERSION Y16580.1 GI:59111797

KEYWORDS mannose-binding lectin; mbl gene.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1

REFERENCE

AUTHORS Madsen,H.O., Satz,M.L., Hogh,B., Svejgaard,A. and Garred,P.

TITLE Different molecular events result in low protein levels of mannan-binding lectin in populations from southeast Africa and South America

JOURNAL J. Immunol. 161 (6), 3169-3175 (1998)

MEDLINE 98414317

PUBMED 9743385

REFERENCE 2 (bases 1 to 1638)

AUTHORS Madsen,H.O.

TITLE Direct Submission

JOURNAL Submitted (16-FEB-1998) H.O. Madsen, Department of Clinical Immunology, Section 7631, National University Hospital, Tagensvej 20, DK-2200 Copenhagen, DENMARK

COMMENT Related sequences X15954, X15955, X15956, X15422.

FEATURES

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/note="polymorphism in different MBL haplotypes"

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474

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487

/note="polymorphism in different MBL haplotypes"

495..500

/note="polymorphism in different MBL haplotypes"

602

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745..1638

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/note="polymorphism in different MBL haplotypes"

ORIGIN

Query Match 100.0%; Score 747; DB 9; Length 1638;

Best Local Similarity 100.0%; Pred. No. 8.2e-209;

Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60

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Db 892 ATGTCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 951

QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGTCT 120

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Db 952 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGTCT 1011

QY 121 CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGCGCTGATGGCACCAAGGGAGAAAAGGGG 180

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Db 1012 CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGCGCTGATGGCACCAAGGGAGAAAAGGGG 1071

QY 181 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCTCCAGGA 240

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Db 1072 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCTCCAGGA 1131

QY 241 AATCCAGGGCCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGGAGACCCTGGAAAAAGT 300

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Db 1132 AATCCAGGGCCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGGAGACCCTGGAAAAAGT 1191

QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360

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Db 1192 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 1251

QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 420

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Db 1432 GAAGCCTTCTGGGCATCATTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGCAGAGGA 1491

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QY 661 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 720

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Db 1552 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 1611

QY 721 CTGGCCGCTCTGTGAGTTCCTCTATCTGA 747

[illegible]

Db 1612 CTGGCCGCTCTGTGAGTTCCTCATCTGA 1638

RESULT 11

E27636

LOCUS

DEFINITION Recombinant human mannan binding protein and process for producing the same.

ACCESSION E27636

VERSION E27636.1 GI:13018238

KEYWORDS JP 1999206378-A/1.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS Nobutaka,W.

TITLE Recombinant human mannan binding protein and process for producing the same

JOURNAL Patent: JP 1999206378-A 1 03-AUG-1999;

COMMENT FUSO YAKUHIIN KOGYO KK

OS Homo sapiens

PN JP 1999206378-A/1

PD 03-AUG-1999

PF 23-JAN-1998 JP 1998011864

PR

PI NOBUTAKA WAKAMIYA

PC C12N15/09,C07K14/47,C12P21/02//A61K38/00,(C12N15/09,C12R1:91),

PC (C12P21/02,C12R1:91),C12N15/00,A61K37/02,(C12N15/00,C12R1:91)

CC Strandedness: Double;

CC Topology: Linear;

FH Key

FT sig peptide

FT CDS

FT Location/Qualifiers

FEATURES

source

1. .3605

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 747; DB 6; Length 3605;

Best Local Similarity 100.0%; Pred. No. 9.1e-209;

Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60

Db 66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125

QY 61 GAAACTGTGACCTGTGAGGATGCCCCAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120

Db 126 GAAACTGTGACCTGTGAGGATGCCCCAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185

QY 121 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGCTGATGGCACCACCAAGGAGAAAAAGGGG 180

Db 186 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGCTGATGGCACCACCAAGGAGAAAAAGGGG 245

QY 181 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 240

Db 246 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 305

QY 241 AATCCAGGGCCTTCTGGGTCAACGAGCACCAGGCAAAAGAGACCCCTGGAAAAAGT 300

Db 306 AATCCAGGGCCTTCTGGGTCAACGAGCACCAGGCAAAAGAGACCCCTGGAAAAAGT 365

QY 301 CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAGAAAAGCTCTGCAACAGAAATGGCA 360

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Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCTCAAGTTCCAGGCC 545

QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAATCTCATCAAGGAG 540

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QY 541 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA 600

Db 606 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA 665

QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAAATGCTGGTCTGATGAA 660

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QY 721 CTGGCCGCTCTGTGAGTTCCTATCTGA 747

Db 786 CTGGCCGCTCTGTGAGTTCCTATCTGA 812

RESULT 12

AX411061

LOCUS

DEFINITION Sequence 3708 from Patent WO0229103.

ACCESSION AX411061

VERSION AX411061.1 GI:21443766

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1

AUTHORS Alvares,C., Horne,D., Peres-da-Silva,S. and Vockley,J.G.

TITLE Gene expression profiles in liver cancer

JOURNAL Patent: WO 0229103-A 3708 11-APR-2002;

FEATURES

source

Location/Qualifiers

1. .3605

/organism="Homo sapiens"

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ORIGIN

Query Match 100.0%; Score 747; DB 6; Length 3605;

Best Local Similarity 100.0%; Pred. No. 9.1e-209;

Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60

Db 66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125

QY 61 GAAACTGTGACCTGTGAGGATGCCCCAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120

Db 126 GAAACTGTGACCTGTGAGGATGCCCCAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185

QY 121 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGCTGATGGCACCACCAAGGAGAAAAAGGGG 180

Db 186 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGCTGATGGCACCACCAAGGAGAAAAAGGGG 245

QY 181 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 240

Db 246 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 305

QY 241 AATCCAGGGCCTTCTGGGTCAACGAGCACCAGGCAAAAGGGCCAAAAGGAGACCTGGAAAAAGT 300

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QY 721 CTGGCCGCTCTGTGAGTTCCTTATCTGA 747
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Db 786 CTGGCCGCTCTGTGAGTTCCTTATCTGA 812
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RESULT 13
HSMBPC Human mRNA for mannose-binding protein C. 3605 bp mRNA linear PRI 31-MAR-1995
LOCUS
DEFINITION
X15422
X15422.1 GI:34486
mannose-binding protein.
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3605)
Sastry,K., Herman,G.A., Day,L., Deignan,E., Bruns,G., Morton,C.C.
and Ezekowitz,R.A.
The human mannose-binding protein gene. Exon structure reveals its
evolutionary relationship to a human pulmonary surfactant gene and
localization to chromosome 10
J. Exp. Med. 170 (4), 1175-1189 (1989)
JOURNAL 90010778
MEDLINE 2477486
PUBMED
REFERENCE 2 (bases 1 to 3605)
Ezekowitz,R.A.B.
AUTHORS
TITLE Direct Submission
JOURNAL Submitted (17-AUG-1989) Ezekowitz R.A.B., The Children's Hospital,
Enders Building 7th Floor, 300 Longwood Avenue, Boston MA 02115, U
S A
COMMENT X15422 revises MBP cDNA seq published by:
Ezekowitz et. al. J. Exp. Med. 167:1034-1046(1988). Data kindly
reviewed (22-FEB-1990) by Ezckowitz R.A.B.
FEATURES
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Query Match 100.0%; Score 747; DB 9; Length 3605;
Best Local Similarity 100.0%; Pred. No. 9.1e-209;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
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Db 606 GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA 665
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QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 660
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Db 666 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 725
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Db 726 GATTGTGATTGCTACTGAAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCAT 785
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QY 721 CTGGCCGCTCTGTGAGTTCCTTATCTGA 747
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Db 786 CTGGCCGCTCTGTGAGTTCCTTATCTGA 812
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RESULT 14

BC069338
LOCUS
DEFINITION Homo sapiens mannose-binding lectin (protein C) 2, soluble (opsonic defect), mRNA (cDNA clone MGC:97022 IMAGE:7262231), complete cds.
ACCESSION BC069338
VERSION
KEYWORDS
SOURCE MGC.
ORGANISM Homo sapiens (human)
Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 960)

REFERENCE
AUTHORS Strausberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Haieh,F., Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L., Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Usdin,T.B., Toshiyuki,S., Carninci,P., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.J., Abramson,R.D., Mullihy,S.J., Bosak,S.A., McEwan,P.J., McKernan,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Worley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Hulyk,S.W., Villalón,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Fahey,J., Helton,E., Kettaman,M., Madan,A., Rodrigues,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Dickson,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Butterfield,Y.S., Krzywinski,M.I., Skalska,U., Smailus,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED 12477932

REFERENCE
AUTHORS 2 (bases 1 to 960)
DIRECTOR MGC Project.
TITLE Direct Submission
JOURNAL Submitted (29-APR-2004) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

REMARK
COMMENT NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabbs-remail.nih.gov
Tissue Procurement: Baylor Human Genome Sequencing Center
cDNA Library Preparation: Baylor Human Genome Sequencing Center
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H., Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRBR Plate: 2 Row: d Column: 9.

FEATURES

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CDS

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ORIGIN

Query Match 99.8%; Score 745.4; DB 9; Length 960;
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Matches 746; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGTCCTGTTTCCATCACTCCCTCTCTCTCTCTCTCTGAGTATGGTGGCAGCGCTTACTCA 60
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QY 121 CCAGGCATCAACGGCTTCCCAGGCAAGATGGCGCTGATGGCACCAGGAGAAAGGGG 180
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QY 181 GAACGAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCTCCAGGA 240
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DB 291 AATCCAGGGCCTTCTGGGTCAACGAGGCCAAGAGGGCCCAAAAGGAGACCCCTGGAAAAAGT 350
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QY 721 CTGGCCGTCTGTGAGTTCCTATCTGA 747
DB 771 CTGGCCGTCTGTGAGTTCCTATCTGA 797

RESULT 15
CQ875889
LOCUS CQ875889 1632 bp DNA linear PAT 04-OCT-2004
DEFINITION Sequence 22 from Patent WO2004065626.
ACCESSION CQ875889
VERSION CQ875889.1 GI:53789632
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE Garred,P., Madsen,H.O. and str M,J.
AUTHORS A method of sepsis prognosis
TITLE Patent: WO 2004065626-A 22 05-AUG-2004;
JOURNAL Rigshospitalet (DK); Kobenhavns Amt (DK)
FEATURES Location/Qualifiers
source 1..1632
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Search completed: June 20, 2005, 17:02:04
Job time : 3608 secs

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Db	886	ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA	945		
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Db	946	GAAACTGTGACCTGTGAGGATGCCCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCT	1005		
QY	121	CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGTGATGGCACCAAGGGAGAAAAGGGG	180		
Db	1006	CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGTGATGGCACCAAGGAAGAAAAGGGG	1065		
QY	181	GAACCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGCGCTCCAGGA	240		
Db	1066	GAACCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGCGCTCCAGGA	1125		
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCAAAAAGGAGACCTCGAAAAAAGT	300		
Db	1126	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCAAAAAGGAGACCTCGAAAAAAGT	1185		
QY	301	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAACACAGAAATGGCA	360		
Db	1186	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAACACAGAAATGGCA	1245		
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420		
Db	1246	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	1305		
QY	421	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCTTGTGTCAAGTTCCAGGCC	480		
Db	1306	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCTTGTGTCAAGTTCCAGGCC	1365		
QY	481	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAAATCTCATCAAGGAG	540		
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QY	541	GAAGCCTTCCTGGGCATCACTGATGAGAAAGACAGAAGGGCAGTTTGTGGATCTGACAGGA	600		
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661 GATTGTGTATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCCTGCTCCACCTCCCAT 720
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721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747
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1606 CTGGCCGTCTGTGAGTTCCTTATCTGA 1632
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OM nucleic - nucleic search, using sw model
Run on: June 19, 2005, 14:00:45 ; Search time 541 Seconds
(without alignments)
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues
Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	747	100.0	747	2	Aaz07142 Human man
2	747	100.0	747	12	Adi20100 DNA seque
3	747	100.0	900	6	Abk14771 DNA encod
4	747	100.0	1632	13	Adr29055 Human MBL
5	747	100.0	1638	12	Adp03860 Human mbl
6	747	100.0	1638	13	Adr29056 Human MBL
7	747	100.0	1638	13	Adr29059 Human MBL
8	747	100.0	1638	13	Adr29061 Human MBL
9	747	100.0	3605	2	Aaz07143 Human man
10	747	100.0	3605	6	Abn97210 Gene #370
11	747	100.0	3605	12	Adi20099 DNA seque
12	747	100.0	3605	12	Adj45526 CDNA enco
13	745.4	99.8	1632	13	Adr29057 Human MBL
14	745.4	99.8	1638	13	Adr29058 Human MBL
15	745.4	99.8	1638	13	Adr29060 Human MBL
16	742.2	99.4	3592	2	Aaq53529 Human Man
17	734	98.3	1644	12	Adp03848 Human mbl
18	734	98.3	1644	12	Adp03836 Human mbl
19	734	98.3	1644	12	Adp03840 Human mbl
20	734	98.3	1644	12	Adp03844 Human mbl

21	734	98.3	1644	12	ADP03856	Adp03856 Human mbl
22	734	98.3	1644	12	ADP03852	Adp03852 Human mbl
23	684	91.6	684	2	AAX29295	Aax29295 Mannan-bi
24	673.4	90.1	1143	12	ADO21125	Ado21125 Human car
25	635.8	85.1	963	1	AAN91079	Aan91079 CDNA of h
26	444.6	59.5	1409	6	AAD45344	Aad45344 Human ant
27	395	52.9	1010	3	AA70738	Aaa70738 Pig serum
28	374	50.1	3336	2	AAQ64652	Aaq64652 Human Man
29	364.6	48.8	1037	6	ABK63803	Abk63803 Rat seque
30	364.6	48.8	1037	10	ADB58487	Adb58487 Toxicity-
31	287.6	38.5	1068	12	ADP71919	Adp71919 Renal tox
32	286	38.3	717	10	ADB58066	Adb58066 Toxicity-
33	286	38.3	717	10	ADB52544	Adb52544 Primary r
34	284.4	38.1	943	4	AAH44805	Aah44805 Murine CD
35	280.6	37.6	1437	4	AAK51894	Aak51894 Human pol
36	274.4	36.7	1662	4	AAK52878	Aak52878 Human pol
37	240.6	32.2	1248	12	ADP28880	Adp28880 Human sec
38	224	30.0	1143	12	ADO21125	Ado21125 Human car
39	222	29.7	419	8	ABX46620	Abx46620 Bovine ES
40	204.4	27.4	1211	6	ABK14789	Abk14789 DNA encod
41	188	25.2	1802	2	AAQ53530	Aaq53530 Human Man
42	186.2	24.9	405	6	ABS66633	Abs66633 Rat PrMBP
43	186	24.9	1802	10	ABX08715	Abx08715 Pathogeni
44	186	24.9	1802	10	ABX08719	Abx08719 Pathogeni
45	186	24.9	1802	10	ABX08711	Abx08711 Pathogeni

ALIGNMENTS

RESULT 1	
ID	AAZ07142
XX	AAZ07142 standard; cDNA; 747 BP.
AC	AAZ07142;
DT	11-OCT-1999 (first entry)
XX	Human mannan-binding protein encoding cDNA.
DE	Human; mannan-binding protein; hMBP; recombinant; inhibition; infection;
XX	rhMBP; haemagglutination; influenza; HIV; primer; ss.
OS	Homo sapiens.
XX	WO9937676-A1.
PN	29-JUL-1999.
PD	23-JUL-1998; 98WO-JP003311.
XX	23-JAN-1998; 98JP-00011864.
PR	(FUSO) FUSO PHARM IND LTD.
PA	Wakamiya N;
XX	WPI; 1999-469114/39.
PI	P-PSDB; AAY29485.
XX	Recombinant human mannan-binding protein expressed using pNOW1 vector.
DR	Example 2; Page 74; 91pp; Japanese.
XX	The present invention describes recombinant human mannan-binding protein
CC	(rhMBP) having a molecular weight range of 1000-1300 or 200-400 kDa (by
CC	gel filtration with detection at 280 nm). rhMBP may be used as a
CC	component of drug compositions for the inhibition of haemagglutination
CC	and prevention of infection by viruses such as influenza and HIV. The
CC	present sequence encodes hMBP (human mannan-binding protein)
XX	Sequence 747 BP; 203 A; 187 C; 202 G; 155 T; 0 U; 0 Other;
SQ	

Query Match		100.0%;	Score 747;	DB 2;	Length 747;	
Best Local Similarity		100.0%;	Pred. No. 1.1e-207;			
Matches 747;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
QY	1	ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGCGAGCGTCTTACTCA	60			
Db	1	ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGCGAGCGTCTTACTCA	60			
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Db	61	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGAATTGCCGTGAGCTCT	120			
QY	121	CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGTGAATGGCACCAGGGAGAGAAAAGGGG	180			
Db	121	CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGTGAATGGCACCAGGGAGAGAAAAGGGG	180			
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	240			
Db	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	240			
QY	241	AATCCAGGGCCTTCTGGGTCACCAAGACCCAAAGGGCCAAAGGACCCCTGGAAAAGT	300			
Db	241	AATCCAGGGCCTTCTGGGTCACCAAGACCCAAAGGGCCAAAGGACCCCTGGAAAAGT	300			
QY	301	CCGGATGGTGATAGTACCTTGGCTGCCTCAGAAAAGAAAGCTCTGCAACAGAAATGGCA	360			
Db	301	CCGGATGGTGATAGTACCTTGGCTGCCTCAGAAAAGAAAGCTCTGCAACAGAAATGGCA	360			
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420			
Db	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420			
QY	421	ACCAATGGTGAATAATGACCTTGAAGGCAAAAGATGGAGCCATTGAGATCTCATCAAGGAG	480			
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QY	541	GAAGCCTTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600			
Db	541	GAAGCCTTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600			
QY	601	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA	660			
Db	601	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA	660			
QY	661	GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	720			
Db	661	GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	720			
QY	721	CTGGCCGTCTGTGAGTTCCCTATCTGA	747			
Db	721	CTGGCCGTCTGTGAGTTCCCTATCTGA	747			

RESULT 2
ADI20100
ID ADI20100 standard; DNA; 747 BP.
XX
AC ADI20100;
XX
DT 22-APR-2004 (first entry)
XX
DE DNA sequence #2 related to the invention.
XX
KW anti-human immunodeficiency virus; HIV; mannose binding protein; MBP; ds.
XX
OS Homo sapiens.
XX
PN WO2004002511-A1.
XX

PD	08-JAN-2004.					
XX						
PF	30-JUN-2003; 2003WO-JP008259.					
XX						
PR	28-JUN-2002; 2002JP-00189534.					
XX						
PA	(FUSO) FUSO PHARM IND LTD.					
XX						
PI	Wakamiya N, Ohtani K, Sakamoto T, Keshi H, Kishi Y;					
XX						
DR	WPI; 2004-082879/08.					
XX						
PT	Anti-human immunodeficiency virus (HIV) agent comprising a mannose					
XX	binding protein for treatment of HIV infection.					
PS	Disclosure; SEQ ID NO 2; 44pp; Japanese.					
XX						
CC	The present invention relates to anti-human immunodeficiency virus (HIV)					
CC	agent comprises a mannose binding protein (MBP). For use in the treatment					
CC	of HIV. The present sequence represents a DNA sequence related to the					
CC	invention.					
XX						
QY	Sequence 747 BP; 203 A; 187 C; 202 G; 155 T; 0 U; 0 Other;					
Db						
QY	Query Match	100.0%;	Score 747;	DB 12;	Length 747;	
Db	Best Local Similarity	100.0%;	Pred. No. 1.1e-207;			
QY	Matches 747;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
Db	1	ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGCGAGCGTCTTACTCA	60			
QY	61	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGAATTGCCGTGAGCTCT	120			
Db	61	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGAATTGCCGTGAGCTCT	120			
QY	121	CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGTGAATGGCACCAGGGAGAGAAAAGGGG	180			
Db	121	CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGTGAATGGCACCAGGGAGAGAAAAGGGG	180			
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	240			
Db	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	240			
QY	241	AATCCAGGGCCTTCTGGGTCACCAAGACCCAAAGGGCCAAAGGAGACCCCTGGAAAAGT	300			
Db	241	AATCCAGGGCCTTCTGGGTCACCAAGACCCAAAGGGCCAAAGGAGACCCCTGGAAAAGT	300			
QY	301	CCGGATGGTGATAGTACCTTGGCTGCCTCAGAAAAGAAAGCTCTGCAACAGAAATGGCA	360			
Db	301	CCGGATGGTGATAGTACCTTGGCTGCCTCAGAAAAGAAAGCTCTGCAACAGAAATGGCA	360			
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420			
Db	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420			
QY	421	ACCAATGGTGAATAATGACCTTGAAGGCAAAAGATGGAGCCATTGAGTGTCAAGTTCCAGGCC	480			
Db	421	ACCAATGGTGAATAATGACCTTGAAGGCAAAAGATGGAGCCATTGAGTGTCAAGTTCCAGGCC	480			
QY	481	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGATCTCATCAAGGAG	540			
Db	481	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGATCTCATCAAGGAG	540			
QY	541	GAAGCCTTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600			
Db	541	GAAGCCTTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600			
QY	601	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA	660			
Db	601	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA	660			
QY	661	GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	720			
Db	661	GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	720			

Db 661 GATTGTGTTTCTGCTACTGAAATGGCCAGTGGATGACGTCCCTGCTCCACTCCCAT 720

QY 721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747

Db 721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747

RESULT 3
ABK14771
ID ABK14771 standard; DNA; 900 BP.
XX
AC ABK14771;
XX
DT 08-MAY-2002 (first entry)
XX
DE DNA encoding human mannose-binding protein (MBP).
XX

KW Human; mannose-binding protein; MBP; methylotrophic yeast strain;
KW protein disulphide isomerase; PDI; heat shock protein 47; hsp47;
KW propyl-4-hydroxylase; P4H; pathogenic organism disposal; biocide; gene;
KW ds.

XX Homo sapiens.

XX Key Location/Qualifiers
FH 66.812
FT /*tag= a
FT /product= "Mannose-binding protein (MBP)"

PN US6337193-B1.

XX 08-JAN-2002.

PF 24-NOV-1998; 98US-00198603.

PR 24-NOV-1998; 98US-00198603.

XX (APTA-) APTAGEN INC.

PI Tully RE, Caltagirone GT, Moyer SS, Ronning MT;

XX WPI; 2002-163238/21.

DR P-PSDB; AAU75574.

XX Methylotrophic yeast strain, useful for producing mannose-binding
PT protein, comprises DNA molecules encoding the protein, protein disulfide
PT isomerase, heat shock protein 47 and propyl-4-hydroxylase.

PS Claim 5; Fig 1; 30pp; English.

XX The invention relates to a methylotrophic yeast strain (I) comprising a
CC DNA molecule encoding mannose-binding protein (MBP), protein disulphide
CC isomerase (PDI), heat shock protein 47 (hsp47), and propyl-4-hydroxylase
CC (P4H), where upon culturing (I) produces the MBP, PDI, hsp47 and P4H. (I)
CC is useful for producing MBP comprising culturing (I) under conditions
CC suitable for the secretion of MBP by the yeast where MBP is utilised in
CC disposal of pathogenic organisms by opsonising pathogen or activating
CC complement cascade. The methods utilising (I) result in high yields of
CC MBP without the use of foetal calf serum, in a cost-effective manner. The
CC present sequence relates to the coding sequence of human mannose-binding
CC protein

XX Sequence 900 BP; 246 A; 225 C; 228 G; 201 T; 0 U; 0 Other;

Query Match 100.0%; Score 747; DB 6; Length 900;
Best Local Similarity 100.0%; Pred. No. 1.2e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60

Db 66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125

QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTCCTGTAGCTCT 120
Db 126 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTCCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCAGGCAAAAGATGSGCGTGATGGCACCAAGGAGAAAAGGG 180
Db 186 CCAGGCATCAACGGCTTCCAGGCAAAAGATGSGCGTGATGGCACCAAGGAGAAAAGGG 245
QY 181 GAACCAAGGCAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCTCCAGGA 240
Db 246 GAACCAAGGCAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCTCCAGGA 305
QY 241 AATCCAGGGCTTCTGGGTCAACAGGACCAAGAGGCAAAAGAGGAGACCTCGAAAAAGT 300
Db 306 AATCCAGGGCTTCTGGGTCAACAGGACCAAGAGGCAAAAGAGGAGACCTCGAAAAAGT 365
QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
Db 366 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 420
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 485
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 480
Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGATGGAGCCATTGAGAAATCTCATCAAGGAG 540
Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGATGGAGCCATTGAGAAATCTCATCAAGGAG 605
QY 541 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGA 600
Db 606 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGA 665
QY 601 AATAGACTGACCTACACAAAACCTGGAACGAGGCTGAACCCCAACAATGCTGTTCTGATGAA 660
Db 666 AATAGACTGACCTACACAAAACCTGGAACGAGGCTGAACCCCAACAATGCTGTTCTGATGAA 725
QY 661 GATTGTGTTATTGTTACTGAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGTTATTGTTACTGAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747
Db 786 CTGGCCGTCTGTGAGTTCCTTATCTGA 812

RESULT 4

ADR29055

ID ADR29055 standard; DNA; 1632 BP.

XX ADR29055;

AC ADR29055;

XX 21-OCT-2004 (first entry)

DE Human MBL gene with non-structural/variant structural allele (codon 57).
XX
KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW systemic inflammatory response syndrome; SNP; innate immune defence;
KW single nucleotide polymorphism; SNP; structural variant; regulatory;
KW prophylaxis; sepsis syndrome; infection susceptibility;
KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
KW human.

XX Homo sapiens.

XX Key Location/Qualifiers
FH variation 396

FT /*tag= a

FT /standard name= "Single nucleotide polymorphism"

FT /note= "Non-structural allele"

FT	variation	474	/*tag= b	/standard_name= "Single nucleotide polymorphism"	
FT			/note= "Non-structural allele"		
FT	variation	487	/*tag= c	/standard_name= "Single nucleotide polymorphism"	
FT			/note= "Non-structural allele"		
FT	variation	747	/*tag= d	/standard_name= "Single nucleotide polymorphism"	
FT			/note= "Non-structural allele"		
FT	variation	820	/*tag= e	/standard_name= "Single nucleotide polymorphism"	
FT			/note= "Non-structural allele"		
FT	variation	1055	/*tag= f	/standard_name= "Single nucleotide polymorphism"	
FT			/note= "Variant structural allele"		
FT					
FT					

WO2004065626-A2.

05-AUG-2004.

16-JAN-2004: 2004WO-DK000027:

17-JAN-2003: 2003DK-00000042.

06-MAR-2003: 2003US-0453272P.

(RIGS-) RIGSHOSPITALET.

(KOB-) KOBENHAVNS AMT.

Garred P, Madsen HO, Strom J;

WPI: 2004-571694/55.

Predicting whether an individual having Systemic Inflammatory Response Syndrome (SIRS) will develop sepsis, useful for treating sepsis, comprises determining the mannose-binding lectin (MBL) genotype or concentration of MBL.

Disclosure: SEO ID NO 20: 65pp; English.

The invention relates to a method to determine the risk factor of a person for sepsis, severe sepsis or septic shock by correlating MBL (mannose binding lectin) genotype with a predefined risk value. It discloses the connection between the MBL genotype of an individual having SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing sepsis, severe sepsis or septic shock. It shows how a decreased level of MBL and lack of functional MBL are crucial to the development of sepsis and septic shock in an individual having sepsis. A MBL is an important factor in innate immune defence. MBL single nucleotide polymorphism in the form of the structural variant (codon 54, codon 52 and codon 57) and regulatory variant (low expression and high expression) were studied. This invention discloses that the MBL gene polymorphism's causes a reduction of the MBL level, which is associated with the development and progression of sepsis in adult intensive care patients. The invention offers a service to determine whether an individual belongs to a risk group and it provides the treatment accordingly. There is an increased risk of a fatal outcome of an individual carrying MBL variant alleles. A rapid determination of MBL genotype of patients is important in identifying individuals at risk of developing sepsis, severe sepsis or septic shock. The MBL can be used for a medicament for the prevention and treatment of specified diseases. The MBL variant allele is also associated with an increased risk of death. It raises the prospective that MBL (MBL substitution) can be used in prophylaxis and treatment of sepsis syndrome. The frequency of MBL variant alleles is proportional to the severity of sepsis which indicates lacking buffering capacity of MBL towards initial microbial replication. It is not only associated with susceptibility of infection but also allows activation of host mechanisms central to the pathophysiology of the sepsis syndrome. The invention can also predict the risk for developing multiple organ failure (MOF),

RESULT 6
ADR29056
ID ADR29056 standard; DNA; 1638 BP.
XX
AC ADR29056;
XX
DT 21-OCT-2004 (first entry)
XX
DE Human MBL gene with non-structural/variant structural allele (codon 54).
XX
KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW systemic inflammatory response syndrome; innate immune defence;
KW single nucleotide polymorphism; SNP; structural variant; regulatory;
KW prophylaxis; sepsis syndrome; infection susceptibility;
KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
KW human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT variation 273
FT /*tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 396
FT /*tag= b
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 474
FT /*tag= c
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 487
FT /*tag= d
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT mutation 495..500
FT /*tag= e
FT /note= "Optional deletion in base sequence"
FT variation 602
FT /*tag= f
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 753
FT /*tag= g
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 826
FT /*tag= h
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Non-structural allele"
FT variation 1052
FT /*tag= i
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Variant structural allele"
XX
PN WO2004065626-A2.
XX
PD 05-AUG-2004.
XX
PF 16-JAN-2004; 2004WO-DK0000027.
XX
PR 17-JAN-2003; 2003DK-000000042.
PR 06-MAR-2003; 2003US-0453272P.
XX
PA (RIGS-) RIGSHOSPITALET.
PA (KOB-) KOBENHAVNS AMT.
XX
PI Garred P, Madsen HO, Strom J;
XX
DR WPI; 2004-571694/55.
XX

PT Predicting whether an individual having Systemic Inflammatory Response
PT Syndrome (SIRS) will develop sepsis, useful for treating sepsis,
PT comprises determining the mannose-binding lectin (MBL) genotype or
PT concentration of MBL.
XX
PS Disclosure; SEQ ID NO 21; 65pp; English.
XX
CC The invention relates to a method to determine the risk factor of a
CC person for sepsis; severe sepsis or septic shock by correlating MBL
CC (mannose binding lectin) genotype with a predefined risk value. It
CC discloses the connection between the MBL genotype of an individual having
CC SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing
CC sepsis, severe sepsis or septic shock. It shows how a decreased level of
CC MBL and lack of functional MBL are crucial to the development of sepsis
CC and septic shock in an individual having sepsis. A MBL is an important
CC factor in innate immune defence. MBL single nucleotide polymorphism in
CC the form of the structural variant (codon 54, codon 52 and codon 57) and
CC regulatory variant (low expression and high expression) were studied.
CC This invention discloses that the MBL gene polymorphism's causes a
CC reduction of the MBL level, which is associated with the development and
CC progression of sepsis in adult intensive care patients. The invention
CC offers a service to determine whether an individual belongs to a risk
CC group and it provides the treatment accordingly. There is an increased
CC risk of a fatal outcome of an individual carrying MBL variant alleles. A
CC rapid determination of MBL genotype of patients is important in
CC identifying individuals at risk of developing sepsis, severe sepsis or
CC septic shock. The MBL can be used for a medicament for the prevention and
CC treatment of specified diseases. The MBL variant allele is also
CC associated with an increased risk of death. It raises the prospective
CC that MBL (MBL substitution) can be used in prophylaxis and treatment of
CC sepsis syndrome. The frequency of MBL variant alleles is proportional to
CC the severity of sepsis which indicates lacking buffering capacity of MBL
CC towards initial microbial replication. It is not only associated with
CC susceptibility of infection but also allows activation of host mechanisms
CC central to the pathophysiology of the sepsis syndrome. The invention can
CC also predict the risk for developing multiple organ failure (MOF),
CC multiple organ dysfunction and acute organ dysfunction of an individual
CC having SIRS. The high risk is characterised by the presence of at least
CC one variant structural allele of the MBL gene and or having two low
CC expression regulatory alleles of the MBL gene in a sample. The presented
CC sequence is the non-structural (deletion in position 495-500) and
CC structural allele (in codon 54) of MBL from human.
XX
SQ Sequence 1638 BP; 454 A; 382 C; 430 G; 372 T; 0 U; 0 Other;

Query Match 100.0%; Score 747; DB 13; Length 1638;
Best Local Similarity 100.0%; Pred. No. 1.6e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTTCTCCTTCTCCTGAGTATGTTGGCAGCGTCTTACTCA 60
Db |||||
892 ATGTCCCTGTTTCCATCACTCCCTTCTCCTTCTCCTGAGTATGTTGGCAGCGTCTTACTCA 951

QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
Db |||||
952 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 1011

QY 121 CCAGGCATCAACGGCTTCCCAGGCAAGATGGGCGTGATGGCCAAAGGGAGAAAAGGGG 180
Db |||||
1012 CCAGGCATCAACGGCTTCCCAGGCAAGATGGGCGTGATGGCCAAAGGGAGAAAAGGGG 1071

QY 181 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCCTCCAGGA 240
Db |||||
1072 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCCTCCAGGA 1131

QY 241 AATCCAGGGCCTTCTGGGTCAACGAGCAAAAGGGCCAAAAGGAGACCTTGGAAAAAGT 300
Db |||||
1132 AATCCAGGGCCTTCTGGGTCAACGAGCAAAAGGGCCAAAAGGAGACCTTGGAAAAAGT 1191

QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
Db |||||
1192 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 1251

QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 420
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1252 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 1311
QY 421 ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC 480
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1312 ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC 1371
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1372 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAG 1431
QY 541 GAAGCCTTCCTGGGCATCACTGATGAGAGACAGAGGCGAGTTTGTGGATCTGACAGGA 600
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1432 GAAGCCTTCCTGGGCATCACTGATGAGAGACAGAGGCGAGTTTGTGGATCTGACAGGA 1491
QY 601 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 660
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1492 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 1551
QY 661 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCTGCTCCACCTCCCAT 720
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1552 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCTGCTCCACCTCCCAT 1611
QY 721 CTGGCCGCTGTGAGTTCCCTATCTGA 747
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1612 CTGGCCGCTGTGAGTTCCCTATCTGA 1638

RESULT 7
ADR29059
ID ADR29059 standard; DNA; 1638 BP.
XX
AC ADR29059;
XX
DT 21-OCT-2004 (first entry)
XX
DE Human MBL gene with high expression regulatory allele (602G).
XX
KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW systemic inflammatory response syndrome; innate immune defence;
KW single nucleotide polymorphism; SNP; structural variant; regulatory;
KW prophylaxis; sepsis syndrome; infection susceptibility;
KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
XX
OS Homo sapiens.

XX Key Location/Qualifiers
FH variation 602
FT /*tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "High expression regulatory allele"
FT variation 1045
FT /*tag= b
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Normal structural allele"
FT variation 1052
FT /*tag= c
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Normal structural allele"

XX WO2004065626-A2.
XX
PD 05-AUG-2004.
XX
PF 16-JAN-2004; 2004WO-DK000027.
XX
PR 17-JAN-2003; 2003DK-00000042.
PR 06-MAR-2003; 2003US-0453272P.
XX
PA (RIGS-) RIGSHOSPITALET.
PA (KOB-) KOBENHAVNS AMT.

XX Garred P, Madsen HO, Strom J;
XX WPI; 2004-571694/55.
XX
XX Predicting whether an individual having Systemic Inflammatory Response
PT Syndrome (SIRS) will develop sepsis, useful for treating sepsis,
PT comprises determining the mannose-binding lectin (MBL) genotype or
PT concentration of MBL.
XX
PS Disclosure; SEQ ID NO 24; 65pp; English.
XX
CC The invention relates to a method to determine the risk factor of a
CC person for sepsis, severe sepsis or septic shock by correlating MBL
CC (mannose binding lectin) genotype with a predefined risk value. It
CC discloses the connection between the MBL genotype of an individual having
CC SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing
CC sepsis, severe sepsis or septic shock. It shows how a decreased level of
CC MBL and lack of functional MBL are crucial to the development of sepsis
CC and septic shock in an individual having sepsis. A MBL is an important
CC factor in innate immune defence. MBL single nucleotide polymorphism in
CC the form of the structural variant (codon 54, codon 52 and codon 57) and
CC regulatory variant (low expression and high expression) were studied.
CC This invention discloses that the MBL gene polymorphism's causes a
CC reduction of the MBL level, which is associated with the development and
CC progression of sepsis in adult intensive care patients. The invention
CC offers a service to determine whether an individual belongs to a risk
CC group and it provides the treatment accordingly. There is an increased
CC risk of a fatal outcome of an individual carrying MBL variant alleles. A
CC rapid determination of MBL genotype of patients is important in
CC identifying individuals at risk of developing sepsis, severe sepsis or
CC septic shock. The MBL can be used for a medicament for the prevention and
CC treatment of specified diseases. The MBL variant allele is also
CC associated with an increased risk of death. It raises the prospective
CC that MBL (MBL substitution) can be used in prophylaxis and treatment of
CC sepsis syndrome. The frequency of MBL variant alleles is proportional to
CC the severity of sepsis which indicates lacking buffering capacity of MBL
CC towards initial microbial replication. It is not only associated with
CC susceptibility of infection but also allows activation of host mechanisms
CC central to the pathophysiology of the sepsis syndrome. The invention can
CC also predict the risk for developing multiple organ failure (MOF),
CC multiple organ dysfunction and acute organ dysfunction of an individual
CC having SIRS. The high risk is characterised by the presence of at least
CC one variant structural allele of the MBL gene and or having two low
CC expression regulatory alleles of the MBL gene in a sample. The presented
CC sequence is the high expression regulatory allele (position 602 has a
CC base G substitution) of MBL (mannose binding lectin) gene from human.
XX
SQ Sequence 1638 BP; 454 A; 381 C; 431 G; 372 T; 0 U; 0 Other;

Query Match 100.0%; Score 747; DB 13; Length 1638;
Best Local Similarity 100.0%; Pred. No. 1.6e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTCCTGTTTCCATCACTCCCTCTCCTCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
892 ATGTCCTGTTTCCATCACTCCCTCTCCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 951
QY 61 GAAACTGTGACCTGTGAGGATGCCCAAAGACTGCCCTGCAGTATTCCTGTAGCTCT 120
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
952 GAAACTGTGACCTGTGAGGATGCCCAAAGACTGCCCTGCAGTATTCCTGTAGCTCT 1011
QY 121 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGGCGTGTATGGCACCAGGAGAAAAGGGG 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1012 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGGCGTGTATGGCACCAGGAGAAAAGGGG 1071
QY 181 GAACCAAGCCCAAGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1072 GAACCAAGCCCAAGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCTCCAGGA 1131
QY 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGGAGACCTGGAAAAAGT 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1132 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGGAGACCTGGAAAAAGT 1191

QY	301	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA	360
Db	1192	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA	1251
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGSCAAAACAAAGTTGGGAACAAGTCTCTTCCCTG	420
Db	1252	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGSCAAAACAAAGTTGGGAACAAGTCTCTTCCCTG	1311
QY	421	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCAGGCC	480
Db	1312	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCAGGCC	1371
QY	481	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGGCCATTGAGAAATCTCATCAAGGAG	540
Db	1372	TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGGCCATTGAGAAATCTCATCAAGGAG	1431
QY	541	GAAGCCTTCTTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600
Db	1432	GAAGCCTTCTTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	1491
QY	601	AATAGACTGACCTACACAAAACCTGGAACGAGGGTGAAACCAACAATGCTGGTCTTGATGAA	660
Db	1492	AATAGACTGACCTACACAAAACCTGGAACGAGGGTGAAACCAACAATGCTGGTCTTGATGAA	1551
QY	661	GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	720
Db	1552	GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT	1611
QY	721	CTGGCCGTCTGTGAGTTCCTCTATCTGA	747
Db	1612	CTGGCCGTCTGTGAGTTCCTCTATCTGA	1638

RESULT 8	
ADR29061	
ID	ADR29061 standard; DNA; 1638 BP.
XX	
AC	ADR29061;
XX	
DT	21-OCT-2004 (first entry)
XX	
DE	Human MBL low expression regulatory allele (position 602).
XX	
KW	Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW	systemic inflammatory response syndrome; innate immune defence;
KW	single nucleotide polymorphism; SNP; structural variant; regulatory;
KW	prophylaxis; sepsis syndrome; infection susceptibility;
KW	multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
KW	human.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	variation
FT	Location/Qualifiers
FT	602
FT	/*tag= a
FT	/standard_name= "Single nucleotide polymorphism"
FT	/note= "Low expression regulatory allele"
XX	
PN	WO2004065626-A2.
XX	
PD	05-AUG-2004.
XX	
PF	16-JAN-2004; 2004WO-DK0000027.
XX	
PR	17-JAN-2003; 2003DK-00000042.
PR	06-MAR-2003; 2003US-0453272P.
XX	
PA	(RIGS-) RIGSHOSPITALET.
PA	(KOB-) KOBENHAVNS AMT.
XX	
PI	Garred P, Madsen HO, Strom J;
XX	

Db 1192 CCGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAGCTCTGCAACAGAAATGGCA 1251
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAAGTTCTTCCTG 420
Db 1252 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAAGTTCTTCCTG 1311
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAAGTTCCAGGCC 480
Db 1312 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAAGTTCCAGGCC 1371
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAAATCTCATCAAGGAG 540
Db 1372 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAAATCTCATCAAGGAG 1431
QY 541 GAAAGCTTCTCTGGGCATCACTGATGAGAAAGTGAAGGCGCTTGTGGATCTGACAGGA 600
Db 1432 GAAAGCTTCTCTGGGCATCACTGATGAGAAAGTGAAGGCGCTTGTGGATCTGACAGGA 1491
QY 601 AATAGACTGACCTACACAACTGGAACGAGGTGAACCCAACTGCTGGTTCTGATGAA 660
Db 1492 AATAGACTGACCTACACAACTGGAACGAGGTGAACCCAACTGCTGGTTCTGATGAA 1551
QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGAGCTCCCTGCTCCACCTCCCAT 720
Db 1552 GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGAGCTCCCTGCTCCACCTCCCAT 1611
QY 721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747
Db 1612 CTGGCCGTCTGTGAGTTCCTTATCTGA 1638

RESULT 9
AAZ07143
ID AAZ07143 standard; cDNA; 3605 BP.
XX
AC AAZ07143;
XX
DT 11-OCT-1999 (first entry)
XX
DE Human mannan-binding protein encoding cDNA.
XX
KW Human; mannan-binding protein; hMBP; recombinant; inhibition; infection;
rhMBP; haemagglutination; influenza; HIV; primer; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 66..812
FT /*tag= a
FT sig_peptide 66..125
FT /*tag= b
FT mat_peptide 126..809
FT /*tag= c
FT /product= "mannan-binding protein"
XX
PN WO9937676-A1.
XX
PD 29-JUL-1999.
XX
PF 23-JUL-1998; 98WO-JP003311.
XX
PR 23-JAN-1998; 98JP-00011864.
XX
PA (FUSO) FUSO PHARM IND LTD.
XX
PI Wakamiya N;
XX
DR WPI; 1999-469114/39.
DR P-PSDB; AAY29485.
XX
PT Recombinant human mannan-binding protein expressed using pNOW1 vector.
XX
PS Disclosure; Page 71-74; 91pp; Japanese.

XX The present invention describes recombinant human mannan-binding protein
CC (rhMBP) having a molecular weight range of 1000-1300 or 200-400 kDa (by
CC gel filtration with detection at 280 nm). rhMBP may be used as a
CC component of drug compositions for the inhibition of haemagglutination
CC and prevention of infection by viruses such as influenza and HIV. The
CC present sequence encodes hMBP (human mannan-binding protein)
XX
SQ Sequence 3605 BP; 1055 A; 679 C; 647 G; 1224 T; 0 U; 0 Other;
Query Match 100.0%; Score 747; DB 2; Length 3605;
Best Local Similarity 100.0%; Pred. No. 2.3e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTCCTCTGTTTCCATCACTCCCTCTCCTTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db 66 ATGTCCTCTGTTTCCATCACTCCCTCTCCTTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 125
QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCT 120
Db 126 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCCAGGCAAGATGGGCTGTGATGGCACCAGGGAGAAAAGGGG 180
Db 186 CCAGGCATCAACGGCTTCCCAGGCAAGATGGGCTGTGATGGCACCAGGGAGAAAAGGGG 245
QY 181 GAACCCAGGCAAGGGCTCAGAGGCTTACAGGGCCCCCTTGGAAAGTTGGGGCCTCCAGGA 240
Db 246 GAACCCAGGCAAGGGCTCAGAGGCTTACAGGGCCCCCTTGGAAAGTTGGGGCCTCCAGGA 305
QY 241 AATCCAGGGCCTTCTGGGTACCAGGACCAAGGGCCAAAAGGAGACCTCGGAAAAGT 300
Db 306 AATCCAGGGCCTTCTGGGTACCAGGACCAAGGGCCAAAAGGAGACCTCGGAAAAGT 365
QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
Db 366 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAGTTCTTCCTG 420
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAGTTCTTCCTG 485
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAGTTCCAGGCC 480
Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAAATCTCATCAAGGAG 540
Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAAATCTCATCAAGGAG 605
QY 541 GAAAGCTTCTCTGGGCATCACTGATGAGAAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGA 600
Db 606 GAAAGCTTCTCTGGGCATCACTGATGAGAAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGA 665
QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAATGCTGGTTCTGATGAA 660
Db 666 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAATGCTGGTTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGTCTGTGAGTTCCTTATCTGA 747
Db 786 CTGGCCGTCTGTGAGTTCCTTATCTGA 812
RESULT 10
ABN97210
ID ABN97210 standard; DNA; 3605 BP.
XX
AC ABN97210;
XX

DT 13-AUG-2002 (first entry)
XX Gene #3708 used to diagnose liver cancer.
DE Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
XX metastatic liver tumour; cytostatic; expression profile; disease state;
KW disease progression; drug toxicity; drug efficacy; drug metabolism.
KW Homo sapiens.
XX WO200229103-A2.
XX 11-APR-2002.
XX 02-OCT-2001; 2001WO-US030589.
XX 02-OCT-2000; 2000US-0237054P.
XX (GENE-) GENE LOGIC INC.
XX Horne D, Alvares C, Peres-Da-Silva S, Vockley JG;
XX WPI; 2002-426119/45.
XX Diagnosing and detecting the progression of liver cancer, hepatocellular
XX carcinoma or metastatic liver tumor in a patient, involves detecting the
XX level of expression of two or more genes in a liver tissue sample.
XX Claim 1; SEQ ID NO 3708; 298pp; English.
XX The invention relates to a novel method for diagnosing and detecting the
XX progression of liver cancer, hepatocellular carcinoma or metastatic liver
XX tumour in a patient, and differentiating metastatic liver cancer from
XX hepatocellular carcinoma in a patient, involving detecting the level of
XX expression of two or more genes represented in ABN93503-ABN97455 in a
XX tissue sample. The method of the invention has hepatotropic, and
XX cytostatic activity. The method is useful for diagnosing and detecting
XX the progression of liver cancer, hepatocellular carcinoma and metastatic
XX liver carcinoma in a patient. The method is useful for identifying
XX expression profiles which serve as useful diagnostic markers as well as
XX markers that can be used to monitor disease states, disease progression,
XX drug toxicity, drug efficacy and drug metabolism. Note: The sequence data
XX for this patent did not form part of the printed specification, but was
XX obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX Sequence 3605 BP; 1055 A; 679 C; 647 G; 1224 T; 0 U; 0 Other;
SQ

Db 366 CCGGATGGTGATAGTCCCTGGCTGCTCAGAAAAGAAAGCTCTGCAAAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 420
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 485
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCTCAAGTTCCAGGCC 480
Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGACAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540
Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGACAATGGAGCCATTTCAGAAATCTCATCAAGGAG 605
QY 541 GAAGCCTTCTCTGGGCACTCACTGATGAGAAAGAGGAGGAGGAGTTTGTGGATCTGACAGGA 600
Db 606 GAAGCCTTCTCTGGGCACTCACTGATGAGAAAGAGGAGGAGGAGTTTGTGGATCTGACAGGA 665
QY 601 AATAGACTGACCTACACAAAACCTGGAACGAGGCTGAACCCCAACAATGCTGTTCTGATGAA 660
Db 666 AATAGACTGACCTACACAAAACCTGGAACGAGGCTGAACCCCAACAATGCTGTTCTGATGAA 725
QY 661 GATTGTGTATTGCTACTGAAAAAATGGCCAGTGAATGACGTCCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGTATTGCTACTGAAAAAATGGCCAGTGAATGACGTCCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGCTCTGTGAGTTCCTATCTGA 747
Db 786 CTGGCCGCTCTGTGAGTTCCTATCTGA 812

RESULT 11
ADI20099
ID ADI20099 standard; DNA; 3605 BP.
XX
AC ADI20099;
XX
DT 22-APR-2004 (first entry)
XX
DE DNA sequence #1 related to the invention.
XX
KW anti-human immunodeficiency virus; HIV; mannose binding protein; MBP; ds.
XX Homo sapiens.
XX
PN WO2004002511-A1.
XX
PD 08-JAN-2004.
XX
PF 30-JUN-2003; 2003WO-JP008259.
XX
PR 28-JUN-2002; 2002JP-00189534.
XX
PA (FUSO) FUSO PHARM IND LTD.
XX
PI Wakamiya N, Ohtani K, Sakamoto T, Keshi H, Kishi Y;
XX
XX WPI; 2004-082879/08.
DR
XX
PT Anti-human immunodeficiency virus (HIV) agent comprising a mannose
PT binding protein for treatment of HIV infection.
XX
XX Disclosure; SEQ ID NO 1; 44pp; Japanese.
PS
XX The present invention relates to anti-human immunodeficiency virus (HIV)
CC agent comprises a mannose binding protein (MBP). For use in the treatment
CC of HIV. The present sequence represents a DNA sequence related to the
CC invention.
XX
SQ Sequence 3605 BP; 1055 A; 679 C; 647 G; 1224 T; 0 U; 0 Other;
Query Match 100.0%; Score 747; DB 12; Length 3605;

DT 13-AUG-2002 (first entry)
XX Gene #3708 used to diagnose liver cancer.
DE Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
XX metastatic liver tumour; cytostatic; expression profile; disease state;
KW disease progression; drug toxicity; drug efficacy; drug metabolism.
KW Homo sapiens.
XX WO200229103-A2.
XX 11-APR-2002.
XX 02-OCT-2001; 2001WO-US030589.
XX 02-OCT-2000; 2000US-0237054P.
XX (GENE-) GENE LOGIC INC.
XX Horne D, Alvares C, Peres-Da-Silva S, Vockley JG;
XX WPI; 2002-426119/45.
XX Diagnosing and detecting the progression of liver cancer, hepatocellular
XX carcinoma or metastatic liver tumor in a patient, involves detecting the
XX level of expression of two or more genes in a liver tissue sample.
XX Claim 1; SEQ ID NO 3708; 298pp; English.
XX The invention relates to a novel method for diagnosing and detecting the
XX progression of liver cancer, hepatocellular carcinoma or metastatic liver
XX tumour in a patient, and differentiating metastatic liver cancer from
XX hepatocellular carcinoma in a patient, involving detecting the level of
XX expression of two or more genes represented in ABN93503-ABN97455 in a
XX tissue sample. The method of the invention has hepatotropic, and
XX cytostatic activity. The method is useful for diagnosing and detecting
XX the progression of liver cancer, hepatocellular carcinoma and metastatic
XX liver carcinoma in a patient. The method is useful for identifying
XX expression profiles which serve as useful diagnostic markers as well as
XX markers that can be used to monitor disease states, disease progression,
XX drug toxicity, drug efficacy and drug metabolism. Note: The sequence data
XX for this patent did not form part of the printed specification, but was
XX obtained in electronic format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX Sequence 3605 BP; 1055 A; 679 C; 647 G; 1224 T; 0 U; 0 Other;
SQ

Query Match 100.0%; Score 747; DB 6; Length 3605;
Best Local Similarity 100.0%; Pred. No. 2.3e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCTGTTCCATCACTCCCTCTCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db 66 ATGTCCTGTTCCATCACTCCCTCTCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA 125
QY 61 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGAGTATGGCTGTAGCTCT 120
Db 126 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGAGTATGGCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGCGTGTGATGGCAACCAAGGGAGAAAGGG 180
Db 186 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGCGTGTGATGGCAACCAAGGGAGAAAGGG 245
QY 181 GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAGTTGGGCTCCAGGA 240
Db 246 GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAGTTGGGCTCCAGGA 305
QY 241 AATCCAGGGCTTCTGGGTCAACAGGACCAAGGGCCAAAGGAGACCCCTGGAAAAAGT 300
Db 306 AATCCAGGGCTTCTGGGTCAACAGGACCAAGGGCCAAAGGAGACCCCTGGAAAAAGT 365
QY 301 CCGGATGGTGATAGTCCCTGGCTGCCTCAGAAAGAAAGCTCTGCAAAACAGAAATGGCA 360

Best Local Similarity 100.0%; Pred. No. 2.3e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db |||||
66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125
QY 61 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
Db |||||
126 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAGGGG 180
Db |||||
186 CCAGGCATCAACGGCTTCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAGGGG 245
QY 181 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA 240
Db |||||
246 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA 305
QY 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGACCCCTGGAAAAGT 300
Db |||||
306 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGACCCCTGGAAAAGT 365
QY 301 CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAGAAAAGCTCTGCAACAGAAATGGCA 360
Db |||||
366 CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAGAAAAGCTCTGCAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTGCGCAACAAGTTGGGAACAAGTTCTTCCTG 420
Db |||||
426 CGTATCAAAAAGTGGCTGACCTTCTCTGCGCAACAAGTTGGGAACAAGTTCTTCCTG 485
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC 480
Db |||||
486 ACCAATGGTGAATAATGACCTTTGAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAATCTCATCAAGGAG 540
Db |||||
546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAATCTCATCAAGGAG 605
QY 541 GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA 600
Db |||||
606 GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA 665
QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCAAACAATGCTGGTTCTGATGAA 660
Db |||||
666 AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCAAACAATGCTGGTTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCCTGTCTCCACCTCCCAT 720
Db |||||
726 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCCTGTCTCCACCTCCCAT 785
QY 721 CTGGCCGTCTGTGAGTTCCCTATCTGA 747
Db |||||
786 CTGGCCGTCTGTGAGTTCCCTATCTGA 812

RESULT 12
ADJ45526
ID ADJ45526 standard; cDNA; 3605 BP.
XX
AC ADJ45526;
XX
DT 06-MAY-2004 (first entry)
XX
DE cDNA encoding LXR-ligand induced transcript seq id 57.
XX
KW LXR; liver X receptor; cholesterol; gallstone; atherosclerosis;
KW lipid storage disease; obesity; diabetes; hypercholesterolaemia;
KW LXR-ligand induced 1; LXRL1; human; LXR-ligand induced transcript;
KW LXR regulated gene; ss; gene.

XX Homo sapiens.
OS
XX

PN US2004023276-A1.
XX
PD 05-FEB-2004.
XX
PF 02-MAY-2003; 2003US-00429160.
XX
PR 03-MAY-2002; 2002US-0377714P.
XX
PA (WARD/) WARD T R.
PA (MAOM/) MAO M.
PA (LINS/) LINSLEY P S.
PA (LUND/) LUND E.
XX
PI Ward TR, Mao M, Linsley PS, Lund E;
XX
DR WPI; 2004-224687/21.
DR P-PSDB; ADJ45527.
XX
PT New purified Liver X receptor (LXR) nucleic acids, useful for diagnosing
PT a disease involving LXR activity, such as cholesterol gallstones,
PT atherosclerosis, lipid storage diseases, obesity, diabetes, or
PT hypercholesterolemia.
XX
PS Example 1; SEQ ID NO 57; 141pp; English.
XX
CC The invention describes a purified nucleic acid comprising a fully
CC defined sequence of 1586 bp (SEQ ID NO: 1) as given in the specification,
CC or its complement. The methods and compositions are useful for diagnosing
CC a disease or disorder involving LXR (liver X receptor) activity in a
CC sample by detecting an increase or decrease in the transcript level
CC relative to the amount present in an analogous sample from a subject not
CC having the disease or disorder or not subjected to therapy, wherein the
CC disease or disorder is cholesterol gallstones, atherosclerosis, lipid
CC storage diseases, obesity, diabetes, or hypercholesterolaemia. They are
CC also used to identify a compound that changes LXR activity, wherein the
CC compound changes the estimated level of LXR activity in a sample from the
CC subject contacted with the compound relative to the estimated level of
CC LXR activity in an analogous sample from the subject not contacted with
CC the compound. This sequence encodes an LXR regulated protein.
XX
SQ Sequence 3605 BP; 1055 A; 679 C; 647 G; 1224 T; 0 U; 0 Other;

Query Match 100.0%; Score 747; DB 12; Length 3605;
Best Local Similarity 100.0%; Pred. No. 2.3e-207;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db |||||
66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125
QY 61 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
Db |||||
126 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAGGGG 180
Db |||||
186 CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAGGGG 245
QY 181 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA 240
Db |||||
246 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA 305
QY 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAGGAGACCCCTGGAAAAAGT 300
Db |||||
306 AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAGGAGACCCCTGGAAAAAGT 365
QY 301 CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
Db |||||
366 CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG 420
Db |||||
426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG 485

QY 421 ACCAATGCTGAAATAATGACCTTTTGAAAAAGTGAAAGGCTTGTGTGTCAGTTCCAGGCC 480
Db 486 ACCAATGCTGAAATAATGACCTTTTGAAAAAGTGAAAGGCTTGTGTGTCAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGGCATTCAGAAATCTCATCAAGGAG 540
Db 546 TCTGTGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGGCATTCAGAAATCTCATCAAGGAG 605
QY 541 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGGA 600
Db 606 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGGA 665
QY 601 AATAGACTGACTACACAAACTGGAAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 660
Db 666 AATAGACTGACTACACAAACTGGAAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAAAATGGCCAGTGAATGACGTCCTCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGATTGCTACTGAAAAAATGGCCAGTGAATGACGTCCTCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGCTGTGAGTCCCTATCTGA 747
Db 786 CTGGCCGCTGTGAGTCCCTATCTGA 812
RESULT 13
ADR29057
ID ADR29057 standard; DNA; 1632 BP.
AC ADR29057;
XX
XX
DT 21-OCT-2004 (first entry)
XX Human MBL gene with variant structural allele (in codon 57).
DE
XX Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW systemic inflammatory response syndrome; innate immune defence;
KW single nucleotide polymorphism; SNP; structural variant; regulatory;
KW prophylaxis; sepsis syndrome; infection susceptibility;
KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
KW human.
XX
XX Homo sapiens.
XX Key Location/Qualifiers
FH variation 1055
FT /*tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT /note= "Variant structural allele"
XX
XX WO2004065626-A2.
XX
XX
PD 05-AUG-2004.
XX
XX 16-JAN-2004; 2004WO-DK000027.
XX
XX 17-JAN-2003; 2003DK-00000042.
PR 06-MAR-2003; 2003US-0453272P.
XX (RIGS-) RIGSHOSPITALET.
PA (KOB-) KOBENHAVNS AMT.
XX Garred P, Madsen HO, Strom J;
XX WPI; 2004-571694/55.
DR
XX Predicting whether an individual having Systemic Inflammatory Response
PT Syndrome (SIRS) will develop sepsis, useful for treating sepsis, or
PT comprises determining the mannose-binding lectin (MBL) genotype or
PT concentration of MBL.
XX
PS Claim 3; SEQ ID NO 22; 65pp; English.

XX The invention relates to a method to determine the risk factor of a
CC person for sepsis, severe sepsis or septic shock by correlating MBL
CC (mannose binding lectin) genotype with a predefined risk value. It
CC discloses the connection between the MBL genotype of an individual having
CC SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing
CC sepsis, severe sepsis or septic shock. It shows how a decreased level of
CC MBL and lack of functional MBL are crucial to the development of sepsis
CC and septic shock in an individual having sepsis. A MBL is an important
CC factor in innate immune defence. MBL single nucleotide polymorphism in
CC the form of the structural variant (codon 54, codon 52 and codon 57) and
CC regulatory variant (low expression and high expression) were studied.
CC This invention discloses that the MBL gene polymorphism's causes a
CC reduction of the MBL level, which is associated with the development and
CC progression of sepsis in adult intensive care patients. The invention
CC offers a service to determine whether an individual belongs to a risk
CC group and it provides the treatment accordingly. There is an increased
CC risk of a fatal outcome of an individual carrying MBL variant alleles. A
CC rapid determination of MBL genotype of patients is important in
CC identifying individuals at risk of developing sepsis, severe sepsis or
CC septic shock. The MBL can be used for a medicament for the prevention and
CC treatment of specified diseases. The MBL variant allele is also
CC associated with an increased risk of death. It raises the prospective
CC that MBL (MBL substitution) can be used in prophylaxis and treatment of
CC sepsis syndrome. The frequency of MBL variant alleles is proportional to
CC the severity of sepsis which indicates lacking buffering capacity of MBL
CC towards initial microbial replication. It is not only associated with
CC susceptibility of infection but also allows activation of host mechanisms
CC central to the pathophysiology of the sepsis syndrome. The invention can
CC also predict the risk for developing multiple organ failure (MOF),
CC multiple organ dysfunction and acute organ dysfunction of an individual
CC having SIRS. The high risk is characterised by the presence of at least
CC one variant structural allele of the MBL gene and or having two low
CC expression regulatory alleles of the MBL gene in a sample. The presented
CC sequence is the variant structural allele (in codon 57) of MBL (mannose
CC binding lectin) gene from human.
XX
SQ Sequence 1632 BP; 448 A; 381 C; 429 G; 374 T; 0 U; 0 Other;
Query Match 99.8%; Score 745.4; DB 13; Length 1632;
Best Local Similarity 99.9%; Pred. No. 4.7e-207;
Matches 746; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
Db 886 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 945
QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
Db 946 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 1005
QY 121 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGTGATGGCACCAAGGGAGAAAAGGG 180
Db 1006 CCAGGCATCAACGGCTTCCCAGGCAAAAGATGGCGTGATGGCACCAAGGGAGAAAAGGG 1065
QY 181 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCCTCGAAAAGTTGGGGCCTCCAGGA 240
Db 1066 GAACCAAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCCTCGAAAAGTTGGGGCCTCCAGGA 1125
QY 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGACCCCTGGAAAAAGT 300
Db 1126 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGAGACCCCTGGAAAAAGT 1185
QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGAAAACAGAAAATGGCA 360
Db 1186 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGAAAACAGAAAATGGCA 1245
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGSCAAAACAAGTTGGGAACAAGTTCTTCCTG 420
Db 1246 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGSCAAAACAAGTTGGGAACAAGTTCTTCCTG 1305
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAGTTCCAGGCC 480

Db 1372 TCTGTGGCACCCCCAGGAATGCTGCAGAGAAATGGAGCCATTGAGAAATCTCATCAAGGAG 1431

Qy 541 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGCACAGGA 600

Db 1432 GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGCACAGGA 1491

Qy 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCCAACAATGCTGGTCTGATGAA 660

Db 1492 AATAGACTGACCTACACAAACTGGAACGAGGGTGAAACCCCAACAATGCTGGTCTGATGAA 1551

Qy 661 GATTGTGTAATGCTACTGAAAAAATGGCCAGTGAATGACGTCCTCCCTGCTCCACCTCCCAT 720

Db 1552 GATTGTGTAATGCTACTGAAAAAATGGCCAGTGAATGACGTCCTCCCTGCTCCACCTCCCAT 1611

Qy 721 CTGGCCGCTGTGAGTTCCTATCTGA 747

Db 1612 CTGGCCGCTGTGAGTTCCTATCTGA 1638

RESULT 15

ADR29060

ID ADR29060 standard; DNA; 1638 BP.

XX

AC ADR29060;

XX

DT 21-OCT-2004 (first entry)

XX

DE Human MBL gene with non-structural/variant structural allele (codon 52).

XX

KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;

KW systemic inflammatory response syndrome; innate immune defence;

KW single nucleotide polymorphism; SNP; structural variant; regulatory;

KW prophylaxis; sepsis syndrome; infection susceptibility;

KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;

KW human.

XX

OS Homo sapiens.

XX

FH Key

FT variation

FT Location/Qualifiers

FT 273

FT /*tag= a

FT /standard_name= "Single nucleotide polymorphism"

FT /note= "Non-structural allele"

FT 1045

FT /*tag= b

FT /standard_name= "Single nucleotide polymorphism"

FT /note= "Variant structural allele"

XX

PN WO2004065626-A2.

XX

PD 05-AUG-2004.

XX

PF 16-JAN-2004; 2004WO-DK000027.

XX

PR 17-JAN-2003; 2003DK-00000042.

PR 06-MAR-2003; 2003US-0453272P.

XX

PA (RIGS-) RIGSHOSPITALET.

PA (KOB-) KOBENHAVNS AMT.

XX

PI Garred P, Madsen HO, Strom J;

XX

DR WPI; 2004-571694/55.

XX

PT Predicting whether an individual having Systemic Inflammatory Response

PT Syndrome (SIRS) will develop sepsis, useful for treating sepsis,

PT comprises determining the mannose-binding lectin (MBL) genotype or

PT concentration of MBL.

XX

PS Claim 3; SEQ ID NO 25; 65pp; English.

XX

CC The invention relates to a method to determine the risk factor of a

CC person for sepsis, severe sepsis or septic shock by correlating MBL

CC (mannose binding lectin) genotype with a predefined risk value. It

CC discloses the connection between the MBL genotype of an individual having

CC SIRS (Systemic Inflammatory Response Syndrome) and the risk of developing

CC sepsis, severe sepsis or septic shock. It shows how a decreased level of

CC MBL and lack of functional MBL are crucial to the development of sepsis

CC and septic shock in an individual having sepsis. A MBL is an important

CC factor in innate immune defence. MBL single nucleotide polymorphism in

CC the form of the structural variant (codon 54, codon 52 and codon 57) and

CC regulatory variant (low expression and high expression) were studied.

CC This invention discloses that the MBL gene polymorphism's causes a

CC reduction of the MBL level, which is associated with the development and

CC progression of sepsis in adult intensive care patients. The invention

CC offers a service to determine whether an individual belongs to a risk

CC group and it provides the treatment accordingly. There is an increased

CC risk of a fatal outcome of an individual carrying MBL variant alleles. A

CC rapid determination of MBL genotype of patients is important in

CC identifying individuals at risk of developing sepsis, severe sepsis or

CC septic shock. The MBL can be used for a medicament for the prevention and

CC treatment of specified diseases. The MBL variant allele is also

CC associated with an increased risk of death. It raises the prospective

CC that MBL (MBL substitution) can be used in prophylaxis and treatment of

CC sepsis syndrome. The frequency of MBL variant alleles is proportional to

CC the severity of sepsis which indicates lacking buffering capacity of MBL

CC towards initial microbial replication. It is not only associated with

CC susceptibility of infection but also allows activation of host mechanism

CC central to the pathophysiology of the sepsis syndrome. The invention can

CC also predict the risk for developing multiple organ failure (MOF),

CC multiple organ dysfunction and acute organ dysfunction of an individual

CC having SIRS. The high risk is characterised by the presence of at least

CC one variant structural allele of the MBL gene and or having two low

CC expression regulatory alleles of the MBL gene in a sample. The presented

CC sequence is the human MBL gene with non-structural/variant structural

CC allele (in codon 52).

XX

SQ Sequence 1638 BP; 454 A; 380 C; 431 G; 373 T; 0 U; 0 Other;

Query Match 99.8%; Score 745.4; DB 13; Length 1638;

Best Local Similarity 99.9%; Pred. No. 4.7e-207;

Matches 746; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGTCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60

Db 892 ATGTCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 951

Qy 61 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120

Db 952 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 1011

Qy 121 CCAGGCATCAACGGCTTCCCAGCAAAAGATGGCGCTGATGGCACCAGGGAGAAAGGGG 180

Db 1012 CCAGGCATCAACGGCTTCCCAGCAAAAGATGGCGCTGATGGCACCAGGGAGAAAGGGG 1071

Qy 181 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGAAAAGTTGGGGCTCCAGGA 240

Db 1072 GAACCCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGAAAAGTTGGGGCTCCAGGA 1131

Qy 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCCAAAAGAGACCCCTGGAAAAAGT 300

Db 1132 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCCAAAAGAGACCCCTGGAAAAAGT 1191

Qy 301 CCGGATGGTGTAGTAGCCTTGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360

Db 1192 CCGGATGGTGTAGTAGCCTTGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA 1251

Qy 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 420

Db 1252 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG 1311

Qy 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 480

Db 1312 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC 1371

Qy 481 TCTGTGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540

Db1372TCTGTGGCCACCCCCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAACTCTCATCAAGGAG1431

QY541GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAAAGGCAGTTTGTGGATCTGACAGGA600

Db1432GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAAAGGCAGTTTGTGGATCTGACAGGA1491

QY601AATAGACTGACCTACACAACTGGAACGAGGGTGAAACCCAAACAATGCTGGTTCTGATGAA660

Db1492AATAGACTGACCTACACAACTGGAACGAGGGTGAAACCCAAACAATGCTGGTTCTGATGAA1551

QY661GATTGTGTATTGCTACTGAAAAATGGCCAGTGGAATGACGTCCCCTGCTCCACCTCCCAT720

Db1552GATTGTGTATTGCTACTGAAAAATGGCCAGTGGAATGACGTCCCCTGCTCCACCTCCCAT1611

QY721CTGGCCGCTGTGAGTCCCTATCTGA747

Db1612CTGGCCGCTGTGAGTCCCTATCTGA1638

Search completed: June 20, 2005, 16:01:54
Job time : 545 secs

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QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTG 420
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Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTG 485
|
|
|
QY 421 ACCAATGTTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC 480
|
|
|
Db 486 ACCAATGTTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC 545
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|
|
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540
|
|
|
Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG 605
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|
|
QY 541 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGCACAGGA 600
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|
|
Db 606 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGCACAGGA 665
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|
|
QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 660
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|
|
Db 666 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA 725
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QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCAT 720
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|
Db 726 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCAT 785
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QY 721 CTGGCCGCTCTGTGAGTTCCTTATCTGA 747
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|
Db 786 CTGGCCGCTCTGTGAGTTCCTTATCTGA 812
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|
|
RESULT 2
US-09-949-016-3499
; Sequence 3499, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3499
; LENGTH: 1340
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3499
Query Match 100.0%; Score 747; DB 4; Length 1340;
Best Local Similarity 100.0%; Pred. No. 2.6e-227; Mismatches 0; Indels 0; Gaps 0;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
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Db 66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125
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|
QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
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|
|
Db 126 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185
|
|
|
QY 121 CCAGGATCAACGGCTTCCAGGCAAAAGATGGCGGTGATGGCACCAAGGGAGAAAAGGG 180
|
|
|
Db 186 CCAGGATCAACGGCTTCCAGGCAAAAGATGGCGGTGATGGCACCAAGGGAGAAAAGGG 245
|
|
|
QY 181 GAACCAAGGCAAGGGCTCAGAGGCTTACAGGGCCCCCCTGGAAAAGTTGGGGCCTCCAGGA 240
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Db 246 GAACCAAGGCAAGGGCTCAGAGGCTTACAGGGCCCCCCTGGAAAAGTTGGGGCCTCCAGGA 305
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QY 241 AATCCAGGGCCTTCTGGGTCAACCAGGACCAAAGGGCCAAAAGGAGACCCCTGGAAAAAGT 300
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Db 306 AATCCAGGGCCTTCTGGGTCAACCAGGACCAAAGGGCCAAAAGGAGACCCCTGGAAAAAGT 365
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|
QY 301 CCGGATGGTGATAGTAGCCCTGGCTGCCTCAGAAAAGAAAGCTCTGCAAAACAGAAATGGCA 360
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|
|
Db 366 CCGGATGGTGATAGTAGCCCTGGCTGCCTCAGAAAAGAAAGCTCTGCAAAACAGAAATGGCA 425
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|
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCCTCTG 420
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|
|
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCCTCTG 485
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|
|
QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC 480
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|
|
Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC 545
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|
QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540
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|
Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG 605
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QY 541 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGCACAGGA 600
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|
|
Db 606 GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAGGGCAGTTTGTGGATCTGCACAGGA 665
|
|
|
QY 601 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 660
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|
|
Db 666 AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 725
|
|
|
QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCAT 720
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|
|
Db 726 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCAT 785
|
|
|
QY 721 CTGGCCGCTCTGTGAGTTCCTTATCTGA 747
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Db 786 CTGGCCGCTCTGTGAGTTCCTTATCTGA 812
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|
|
RESULT 3
US-09-949-016-36
; Sequence 36, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 3605
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-36
Query Match 100.0%; Score 747; DB 4; Length 3605;
Best Local Similarity 100.0%; Pred. No. 4.6e-227; Mismatches 0; Indels 0; Gaps 0;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 60
|
|
|
Db 66 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA 125
|
|
|
QY 61 GAAACTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 120
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Db 126 GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT 185

QY 121 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGCGTGATGGCCACCAAGGGAGAAAAGGGG 180

Db 186 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGCGTGATGGCCACCAAGGGAGAAAAGGGG 245

QY 181 GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGCGCTCCAGGA 240

Db 246 GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGCGCTCCAGGA 305

QY 241 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCCAAAAAGGAGACCCCTGGAAGT 300

Db 306 AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCCAAAAAGGAGACCCCTGGAAGT 365

QY 301 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAACAGAAATGGCA 360

Db 366 CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAACAGAAATGGCA 425

QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGAAACAAGTTCTTCCTG 420

Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGAAACAAGTTCTTCCTG 485

QY 421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAAGGCTTGTGTCAAGTTCCAGGCC 480

Db 486 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAAGGCTTGTGTCAAGTTCCAGGCC 545

QY 481 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAG 540

Db 546 TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAG 605

QY 541 GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGGA 600

Db 606 GAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGGA 665

QY 601 AATAGACTGACCTACAAAACTGGAACGAGGGTGAAACCAACAATGCTGGTTCTGATGAA 660

Db 666 AATAGACTGACCTACAAAACTGGAACGAGGGTGAAACCAACAATGCTGGTTCTGATGAA 725

QY 661 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGAGCTCCCTGCTCCACCTCCCAT 720

Db 726 GATTGTGATTGCTACTGAAAAAATGGCCAGTGGAATGAGCTCCCTGCTCCACCTCCCAT 785

QY 721 CTGGCCGCTGTGAGTTCCCTATCTGA 747

Db 786 CTGGCCGCTGTGAGTTCCCTATCTGA 812

RESULT 4

US-09-949-016-15241

; Sequence 15241, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 15241

; LENGTH: 8093

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-15241

Query Match 50.1%; Score 374; DB 4; Length 8093;

Best Local Similarity 100.0%; Pred. No. 4.8e-108;

Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 374 GGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTTGACCAATGGTGAAA 433

Db 5191 GGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTTGACCAATGGTGAAA 5250

QY 434 TAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCCTCTGTGGCCACCC 493

Db 5251 TAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCCTCTGTGGCCACCC 5310

QY 494 CCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAGGAAGCCTTCTCTGG 553

Db 5311 CCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAGGAAGCCTTCTCTGG 5370

QY 554 GCATCACTGATGAGAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGAAATAGACTGACCT 613

Db 5371 GCATCACTGATGAGAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGAAATAGACTGACCT 5430

QY 614 ACACAAACTGGAACGAGGTGAACCCCAACAATGCTGGTTCTGATGAAGATTGTGTATTGC 673

Db 5431 ACACAAACTGGAACGAGGTGAACCCCAACAATGCTGGTTCTGATGAAGATTGTGTATTGC 5490

QY 674 TACTGAAAAATGGCCAGTGAATGACGTCCCCTGCTCCACCTCCCCTGCTCCACCTCCCCTGCTGTG 733

Db 5491 TACTGAAAAATGGCCAGTGAATGACGTCCCCTGCTCCACCTCCCCTGCTCCACCTCCCCTGCTGTG 5550

QY 734 AGTCCCTATCTGA 747

Db 5551 AGTCCCTATCTGA 5564

RESULT 5

US-09-949-016-11778

; Sequence 11778, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11778

; LENGTH: 10320

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-11778

Query Match 50.1%; Score 374; DB 4; Length 10320;

Best Local Similarity 100.0%; Pred. No. 5.5e-108;

Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 374 GGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTTGACCAATGGTGAAA 433

Db 5191 GGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTTGACCAATGGTGAAA 5250

QY 434 TAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCCTCTGTGGCCACCC 493

Db 5251 TAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCCTCTGTGGCCACCC 5310

QY 494 CCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAGGAAGCCTTCTCTGG 553

Db 5311 CCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAGGAAGCCTTCTCTGG 5370

[illegible]

RESULT 6
 US-09-198-603C-25
 ; Sequence 25, Application US/09198603C
 ; Patent No. 6337193
 ; GENERAL INFORMATION:
 ; APPLICANT: TULLY, Raymond E.
 ; APPLICANT: CALTAGIRONE, G. Thomas
 ; APPLICANT: MOYER, Shawn S.
 ; APPLICANT: RONNING, Michael T.
 ; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC
 ; TITLE OF INVENTION: YEAST
 ; FILE REFERENCE: A7290
 ; CURRENT APPLICATION NUMBER: US/09/198,603C
 ; CURRENT FILING DATE: 1998-11-24
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 25
 ; LENGTH: 1211
 ; TYPE: DNA
 ; ORGANISM: Mouse
 US-09-198-603C-25

	Query Match	27.4%;	Score 204.4;	DB 3;	Length 1211;
	Best Local Similarity	71.7%;	Pred. No. 1.7e-54;		
	Matches 268;	Conservative	0;	Mismatches 106;	Indels 0;
	Gaps	0;			
QY	374	GGCTGACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCTGACCAATGGTGAA	433		
Db	576	GGGTGCTCTTCTCTGAGTGA AAAAGTTGGAAGAAGTATTTTGTGAGCAGTGT TAAA	635		
QY	434	TAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAGTTCAGGCCCTCTGTGGCCACC	493		
Db	636	AGATGAGCCTTGATAGAGTGAAGGCCCTGTGCTCCGAATTCAGGGCTCTGTGGCCACT	695		
QY	494	CCAGGAATGCTGCAGAGAATGGAGCCATTCAGAATCTCATCAAGGAGGAAGCCTTCCCTG	553		
Db	696	CCAGGAATGCTGAGGA AACTCGGCCATCCAGAAAGTGCCAAAGATATTGCCTACTTG	755		
QY	554	GCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGCACAGGAATAGACTGACCT	613		
Db	756	GCATCACAGATGTGAGGGTTGAAGGCAGTTTGAAGGATCTGCACAGGAACAGAGTGCGCT	815		
QY	614	ACACAACTGGAAACGAGGGTGAACCCAAACAATGCTGGTTCTGATGAAGATTGTGATTGC	673		
Db	816	ATACTAATTGGAATGATGGGGAGCCCAACAACACGGGGCGATGGGAAGACTGTGTGGTGA	875		
QY	674	TACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCATCTGGCCGCTCTGTG	733		
Db	876	TC TTGGGAATGGCAAGTGGAA CGATGTCCCTGCTCTGACTCTTTT TGGCAATATGTG	935		
QY	734	AGTTCCTCTATCTGA	747		
Db	936	AA TCTCTGACTGA	949		

RESULT 7

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US-09-949-016-18336/c
; Sequence 18336, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18336
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-18336

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	Query Match	25.2%;	Score 188;	DB 4;	Length 601;
	Best Local Similarity	100.0%;	Pred. No. 1.9e-49;		
	Matches 188;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
y	1	ATGTCCCTGTTTCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA	60		
b	597	ATGTCCCTGTTTCATCACTCCCTCTCCTTCTCCTGAGTATGGTGGCAGCGTCTTACTCA	538		
y	61	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGATTGCCGTAGCTCT	120		
b	537	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGATTGCCGTAGCTCT	478		
y	121	CCAGGCATCAACGGCTTCCAGGCAAAGATGGCGCTGATGGCACCAGGGAGAAAAGGGG	180		
b	477	CCAGGCATCAACGGCTTCCAGGCAAAGATGGCGCTGATGGCACCAGGGAGAAAAGGGG	418		
y	181	GAACCCAGG	188		
b	417	GAACCCAGG	410		

RESULT 8
US-09-949-016-124315/c
; Sequence 124315, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 124315
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124315

Query Match 25.2%; Score 188; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 1.9e-49;
Matches 188; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 7

ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
STREET: 801 Grand Ave. Suite 3200
CITY: Des Moines
STATE: Iowa
COUNTRY: United States
ZIP: 50309
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/365,103B
FILING DATE: 28-DEC-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Nebel, Heidi S.
REGISTRATION NUMBER: 37,719
REFERENCE/DOCKET NUMBER: Uirf N5-24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (515) 288-3667
TELEFAX: (515) 288-1338
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 24..884
US-08-365-103B-3

Query Match 9.0%; Score 67.6; DB 1; Length 885;
Best Local Similarity 55.6%; Pred. No. 5.5e-11;
Matches 130; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

QY	484	GTGGCCACCCCGAGGATGCTGCAGAGATGGAGCCATTCAGAATCTCATCAAGGAGGAA	543
Db	567	GTCAGCATCCACAGCCAAAGGAACAGGACTTCCTGTATGCAACACATCAACAAGAGGAT	626
QY	544	GCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGGAGTTTGTGGATCTGACAGGAAAT	603
Db	627	TCCTGGATTGGCCTCCAGGATCTCAATATGGAGGGAGAGTTTGTATGGTCGGACGGGAGC	686
QY	604	AGACTGACCTACACAAACTGGAACGAGGGTGAACCCACAATGCTGGTTCTGATGAAGAT	663
Db	687	CCTGTGGGTTATAGCAACTGGAATCCAGGGGAGCCCAATAACGGGGCCAGGGTGAGGAC	746
QY	664	TGTGTATTGCTACTGAAAAATGGCCAGTGAATGACGTCCTCCCTGCTCCACCTCC	717
Db	747	TGTGTGATGATCGGGGGATCCGGCCAGTGAACGACGCGCTTCTGCCCGAGCTAC	800

Search completed: June 20, 2005, 17:05:13
Job time : 185 secs

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QY	61	GAAGCTGTGACCTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT	120
Db	61	GAAGCTGTGACCTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT	120
QY	121	CCAGGCATCAACGGCTTCCCAGGCAAGATGGCGTGATGGCAACCAAGGGAGAAAAGGG	180
Db	121	CCAGGCATCAACGGCTTCCCAGGCAAGATGGCGTGATGGCAACCAAGGGAGAAAAGGG	180
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA	240
Db	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGA	240
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGGAGACCCTGGAAAAAGT	300
Db	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGGAGACCCTGGAAAAAGT	300
QY	301	CCGGATGGTGATAGTACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG	360
Db	301	CCGGATGGTGATAGTACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG	360
QY	361	CGTATCAAAAAGTGGTGACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG	420
Db	361	CGTATCAAAAAGTGGTGACCTTCTCTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTG	420
QY	421	ACCAATGGTGAATAATGACCTTTGAAAAGTGAAGGCCCTTGTGTCAAGTTCCAGGCC	480
Db	421	ACCAATGGTGAATAATGACCTTTGAAAAGTGAAGGCCCTTGTGTCAAGTTCCAGGCC	480
QY	481	TCTGTGGCCACCCCGAATGCTGCAGAGATGGAGCCATTTCAGAAATCTCATCAAGGAG	540
Db	481	TCTGTGGCCACCCCGAATGCTGCAGAGATGGAGCCATTTCAGAAATCTCATCAAGGAG	540
QY	541	GAAGCCTTCTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600
Db	541	GAAGCCTTCTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGA	600
QY	601	AATAGACTGACCTACACAACTGGAACGAGGTGAACCCAAATGCTGGTTCTGATGAA	660
Db	601	AATAGACTGACCTACACAACTGGAACGAGGTGAACCCAAATGCTGGTTCTGATGAA	660
QY	661	GATTGTGATTGCTACTGAAAATGGCCAGTGGAATGACGTCCCCTGCTCCACCTCCCAT	720
Db	661	GATTGTGATTGCTACTGAAAATGGCCAGTGGAATGACGTCCCCTGCTCCACCTCCCAT	720
QY	721	CTGGCCGTCTGTGAGTTCCCTATCTGA	747
Db	721	CTGGCCGTCTGTGAGTTCCCTATCTGA	747

RESULT 3
US-09-880-107-3705
; Sequence 3705, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3705

US-10-500-774-2
; Sequence 2, Application US/10500774
; Publication No. US20050123899A1
; GENERAL INFORMATION:
; APPLICANT: FUSO PHARMACEUTICAL INDUSTRIES, LTD.
; TITLE OF INVENTION: Anti-HIV Agent
; FILE REFERENCE: 03P451WO
; CURRENT APPLICATION NUMBER: US/10/500,774
; CURRENT FILING DATE: 2004-07-06
; PRIOR APPLICATION NUMBER: JP 2002-189534
; PRIOR FILING DATE: 2002-06-28
; NUMBER OF SEQ ID NOS: 3
; SEQ ID NO 2
; LENGTH: 747
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-500-774-2
Query Match 100.0%; Score 747; DB 22; Length 747;
Best Local Similarity 100.0%; Pred. No. 2.9e-234;
Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	666	AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAA	725
Qy	661	GATTGTGTATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCCTGCTCCACCTCCCAT	720
Db	726	GATTGTGTATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCCCCTGCTCCACCTCCCAT	785
Qy	721	CTGGCCGCTGTGAGTTCCTTATCTGA	747
Db	786	CTGGCCGCTGTGAGTTCCTTATCTGA	812

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RESULT 6
US-10-500-774-1
; Sequence 1, Application US/10500774
; Publication No. US20050123899A1
; GENERAL INFORMATION:
; APPLICANT: FUSO PHARMACEUTICAL INDUSTRIES, LTD.
; TITLE OF INVENTION: Anti-HIV Agent
; FILE REFERENCE: 03P451WO
; CURRENT APPLICATION NUMBER: US/10/500,774
; CURRENT FILING DATE: 2004-07-06
; PRIOR APPLICATION NUMBER: JP 2002-189534
; PRIOR FILING DATE: 2002-06-28
; NUMBER OF SEQ ID NOS: 3
; SEQ ID NO 1
; LENGTH: 3605
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-500-774-1

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	Query Match	100.0%; Score 747; DB 22; Length 3605;	
	Best Local Similarity	100.0%; Pred. No. 6e-234;	
	Matches 747; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
QY	1	ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCTGTAGTATGGTGGCAGCGCTTACTCA	60
DB	66		125
QY	61	GAAACTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGATTGCCCTGTAGCTCT	120
DB	126		185
QY	121	CCAGGCATCAACGGCTTCOCAGGCAAGATGGCGTGATGGCCACCACGAAGGAGAAAAGGGG	180
DB	186		245
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCCTCCAGGA	240
DB	246		305
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAGGGCCAAAAAGGAGACCTTGGAAAAAGT	300
DB	306		365
QY	301	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA	360
DB	366		425
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAGTTGGGAAACAAGTTCTTCTCTG	420
DB	426		485
QY	421	ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCTCAAGTTCAGGCC	480
DB	486		545
QY	481	TCTGTGGCACCCCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAATCTCATCAAGGAG	540
DB	546		605
QY	541	GAAGCCTTCTGGGCATCACTGATGAGAACACAGAAAGGGCAGTTTTGTGGATCTGACAGGA	600
DB	606		665

Db 786 CTGCCGCTCTGTGAGTTCCCTATCTGA 812
|||||
RESULT 5
US-10-429-160-57
; Sequence 57, Application US/10429160
; Publication No. US20040023276A1
; GENERAL INFORMATION:
; APPLICANT: Ward, Teresa R
; APPLICANT: Mao, Mao
; APPLICANT: Linsley, Peter S
; APPLICANT: Lund, Lund
; TITLE OF INVENTION: LXR Ligand Induced Genes and Proteins
; FILE REFERENCE: RS0200
; CURRENT APPLICATION NUMBER: US/10/429,160
; CURRENT FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: US 60/377,714
; PRIOR FILING DATE: 2002-05-03
; NUMBER OF SEQ ID NOS: 111
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57
; LENGTH: 3605
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-429-160-57

	Query Match	100.0%;	Score 747;	DB 17;	Length 3605;
	Best Local Similarity	100.0%;	Pred. No. 6e-234;		
	Matches 747;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGTCCTGTTTCCATCACTCCCTCTCTCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA	60		
Db	66	ATGTCCTGTTTCCATCACTCCCTCTCTCTCTCTGAGTATGGTGGCAGCGTCTTACTCA	125		
QY	61	GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCATGATTCCTGTAGCTCT	120		
Db	126	GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCATGATTCCTGTAGCTCT	185		
QY	121	CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAAGGGG	180		
Db	186	CCAGGCATCAACGGCTTCCCAGGCCAAAGATGGGCGTGATGGCACCAAGGGAGAAAAGGGG	245		
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	240		
Db	246	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCCTCCAGGA	305		
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAAGGAGACCTGGAAAAAGT	300		
Db	306	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCAAAAAGGAGACCTGGAAAAAGT	365		
QY	301	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA	360		
Db	366	CCGGATGGTGATAGTAGCCTGGCTGCCTCAGAAAAGAAAAGCTCTGCAAAACAGAAATGGCA	425		
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420		
Db	426	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	485		
QY	421	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC	480		
Db	486	ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCAGGCC	545		
QY	481	TCTGTGGCCACCCOCAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG	540		
Db	546	TCTGTGGCCACCCOCAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCATCAAGGAG	605		
QY	541	GAAGCCCTTCCTGGSCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGA	600		
Db	606	GAAGCCCTTCCTGGSCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGA	665		
QY	601	AATAGACTGACCTACAAAACCTGGAAACGAGGCTGAACCCAAACAAATGCTGGTCTCTGATGAA	660		

[illegible]

RESULT 7

```

US-10-844-837-99
; Sequence 99, Application US/10844837
; Publication No. US20050014932A1
; GENERAL INFORMATION:
; APPLICANT: Imboden, Michael
; APPLICANT: Homan, Jane
; APPLICANT: Bremel, Robert D.
; TITLE OF INVENTION: Targeted Biocid
; FILE REFERENCE: IOGEN-09014
; CURRENT APPLICATION NUMBER: US/10/8
; CURRENT FILING DATE: 2004-05-13
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 99
; LENGTH: 2159
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-844-837-99

```

Query Match	99.2%;	Score 741.2;	DB 21;	Length 2159;
Best Local Similarity	99.6%;	Pred. No. 3.8e-232;		
Matches 743; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;

Qy	61	GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCTGCAGTGATTGCCTGTAGTCT	120
D _b	739	GAAACTGTGGCCTGTGAGGATGCCCAAAAGACCTGCCTGCAGTGATTGCCTGTAGTCT	798
Qy	121	CCAGGCATCAACGGCTTCCCAGGCAAAGATGGCGTGATGGCACCAAGGGAGAAAAGGG	180
D _b	799	CCAGGCATCAACGGCTTCCCAGGCAAAGATGGCGTGATGGCACCAAGGGAGAAAAGGG	858
Qy	181	GAACCAGGCCAAGGSCTCAGAGGCTTACAGGGCCCCCTCGGAAAGTTGGGGCCTCCAGGA	240
D _b	859	GAACCAGGCCAAGGSCTCAGAGGCTTACAGGGCCCCCTCGGAAAGTTGGGGCCTCCAGGA	918
Qy	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAAGGAGACCTTGGAAAAAGT	300
D _b	919	AATCCAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAAGGAGACCTTGGAAAAAGT	978
Qy	301	CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAGAAAAGCTCTGC AAAACAGAATGGCA	360
D _b	979	CCGGATGGTGATAGTACCTGGCTGCCTCAGAAAGAAAAGCTCTGC AAAACAGAATGGCA	1038
Qy	361	CGTATCAAAAAGTGGGTGACCTTCTCTCTGGGCAACAAGTTGGGAAACAAGTTCTTCCTG	420
D _b	1039	CGTATCAAAAAGTGGGTGACCTTCTCTCTGGGCAACAAGTTGGGAAACAAGTTCTTCCTG	1098

Qy	421	ACCAATGGTGAATAATGACCTTTTGAAAAAAGTGAAAGGCCTTGTTGTGTCAAGTTCCAGGCC	480
Db	1099	ACCAATGGTGAATAATGACCTTTTGAAAAAAGTGAAAGGCCTTGTTGTGTCAAGTTCCAGGCC	1158
Qy	481	TCTGTGGCCACCCCGCAAGTAATGCTGCAGAGAATGGAGCCATTCAAGATCTCATCAAGGAG	540
Db	1159	TCTGTGGCCACCCCGCAAGTAATGCTGCAGAGAATGGAGCCATTCAAGATCTCATCAAGGAG	1218

QY	541	GAAGCCTTCTCTGGGCATCACTGATGAGAAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGA	600
Db	1219	GAAGCCTTCTCTGGGTATCACTGATGAGAAAGACAGAAAGGGCAGTTTGTGGATCTGACAGGA	1278
QY	601	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCAAACAATGCTGGTTCGTGATGAA	660
Db	1279	AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCAAACAATGCTGGTTCGTGATGAA	1338
QY	661	GATTGTGTATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCCTGCTCCACCTCCCAT	720
Db	1339	GATTGTGTATTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCCCTGCTCCACCTCCCAT	1398
QY	721	CTGGCCGTCTGTGAGTTCCTATCTG	746
Db	1399	CTGGCCGTCTGTGAGTTCCTATCTGG	1424

RESULT 8

US-09-971-475-2
; Sequence 2, Application US/09971475
; Publication No. US20020086817A1
; GENERAL INFORMATION:
; APPLICANT: Kawasaki, Toshisuke
; TITLE OF INVENTION: Anticancer agent
; FILE REFERENCE: ADT 308
; CURRENT APPLICATION NUMBER: 2001-10-04
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: US 09/468,705
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: PCT/JP98/03697
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: JP 239113/97
; PRIOR FILING DATE: 1997-08-21
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-971-475-2

Query Match	91.6%	Score 684;	DB 9;	Length 684;
Best Local Similarity	100.0%	Pred. No. 1.4e-213;		
Matches 684;	Conservative	0;	Mismatches 0;	Indels 0; Gaps 0;

QY	121	CCAGGCATCAACGGCTTCCACGGCCAAAGATGGGCGTGATGGCA	CCAAAGGAGAAAAAGGGG	180
Db	61	CCAGGCATCAACGGCTTCCACGGCCAAAGATGGGCGTGATGGCA	CCAAAGGAGAAAAAGGGG	120
QY	181	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGSCCTCCAGGA	240	
Db	121	GAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGSCCTCCAGGA	180	
QY	241	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAGGGCCAAAAAGGAGACCCCTGGAAAAAGT	300	
Db	181	AATCCAGGGCCTTCTGGGTCAACAGGACCAAAGGGCCAAAAAGGAGACCCCTGGAAAAAGT	240	
QY	301	CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAAAGCTCTGCAACAGAAATGGCA	360	
Db	241	CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAAAGCTCTGCAACAGAAATGGCA	300	
QY	361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420	
Db	301	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	360	
QY	421	ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC	480	
Db	361	ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAAGTTCCAGGCC	420	

Db 310 AAGATGGACGTGACGGTGCCAAAGGGAGAAAAAGGAGAACCAAGGTCAAGGGCTCAGAGGCT 369
Qy 206 TACAGGGCCCCCTCGAAAGTTGGGGCTCCAGGAAATCCAGGGCCTTCTGGGTACACCAG 265
Db 370 TGAAGGGCCCTCCTGGAAAAGTAGGACCTACAGGACCCCGAGGAATCCGGGTAAAAAG 429
Qy 266 GACCAAAAGGCCAAAGAGAGACCCCTGGAAAAAGTCCGGATGGTGATAGTACCTGGCTG 325
Db 430 GAGCAGTGGACCGAAAGGAGACCGTGGGACAGAGCAGATTTGATACTAGCGAAATTG 489
Qy 326 CTTCAGAAAGAAAGCTCTGCAACAGAAATGGCACGTATCAAAAAAGTGGCTGACCTTCT 385
Db 490 ATTGAGAAATTGCAGCCCTACGATCAGAGCTGAGAGCCCTGAGAAACTGGGTGCTCTTCT 549
Qy 386 CTCTGGGCAACAAAGTTGGAAACAAAGTTCTTCTGACCAATGGTGAATAATGACCTTTG 445
Db 550 CTCTGAGTGAAAAAGTTGGAAGAAAGTATTTTGTGAGCAGTGTAAAAAGATGAGCCTTG 609
Qy 446 AAAAAGTGAAGGCCCTTGTGTCAAGTTCCAGGCCCTCTGGCCACCCCGAGGAATGCTG 505
Db 610 ACAGAGTGAAGGCCCTGTGCTCCGAATTCAGGGCTCTGTGGCCACTCCAGGAATGCTG 669
Qy 506 CAGAGAAATGAGCCATTTCAGAAATCTCATCAAGGAGGAAGCCTTCTTGGGCATCACTGATG 565
Db 670 AGGAAACTCGGCCATCCAGAAAGTGGCCAAAGATATTGCTTACTTTGGGCATCACAGATG 729
Qy 566 AGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGAATAGACTGACCTACACAAACTGGA 625
Db 730 TGAGGGTTGAAGGCAGTTTGTAGGATCTGACAGGAACAGAGTGGCTATACTAATTGGA 789
Qy 626 ACAGGGTGAACCCCAACATGCTGGTTCTGTATGAAGATGTGTATTGCTACTGAAAAATG 685
Db 790 ATGATGGGAGGCCCAACACACGGGCGATGGGGAAGACTGTGTGTGATCTTTGGGAATG 849
Qy 686 GCCAGTGAATGACGTCCCTGCTCCACCTCCCATCTGGCGGTCTGTGAGTTCCCTATCT 745
Db 850 GCAAGTGAACGATGTCCCTGCTCTGACTCTTTTGGCAATCTGTGAATTCTCTGACT 909
Qy 746 GA 747
Db 910 GA 911

RESULT 11
US-09-917-800A-1710
; Sequence 1710, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884

; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1710
; LENGTH: 1037
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_022704
US-09-917-800A-1710

Query Match 48.8%; Score 364.6; DB 9; Length 1037;
Best Local Similarity 70.7%; Pred. No. 1.3e-108;
Matches 483; Conservative 0; Mismatches 200; Indels 0; Gaps 0;
Qy 65 CTGTGACCTGTGAGGATGCCAAAAGACCTGCCCTGAGTGAATTCCTGTAGCTCTCCAG 124
Db 233 CCGAGACCTTAACCGAAGGGGCTCAAAGTAGTGCCTTGTGATTCCTGAGTTCTCCGG 292
Qy 125 GCATCAACGGCTTCCAGGCAAGATGGCGTGTATGGCAACCAAGGGAGAAAAAGGGGAAC 184
Db 293 CCTGAAACGGCTTCCAGGCAAGATGGACACGACGGTGCACAAAGGAGAAAAAGGGAGAAC 352
Qy 185 CAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCTCCAGGAAATC 244
Db 353 CGGTCAAGGCCCTCAGAGGCTTGCAGGGCCCTCCTGGAAAAAGTAGGACCTGCAGGGCCCC 412
Qy 245 CAGGGCCTTCTGGGTCAACAGGACCAAGGGCCAAAAGGAGACCCCTGGAAAAAGTCCGG 304
Db 413 CAGGGAATCCTGGGTCAAAAGGAGCAACGGGACCAAAAGGAGACCGTGGAGAGAGTAG 472
Qy 305 ATGGTATAGTAGCCTGCTCAGAAAGAAAGCTCTGCAAAACAGAAATGGCACGTA 364
Db 473 AATTGATACTACCAACATTTAGAAATTTGAGCCCTCGGATCGGAGCTGAGAGCTA 532
Qy 365 TCAAAAAGTGGTGAACCTTCTCTGGGCAAAACAAGTTGGGAAACAAGTTCTTCTTGACCA 424
Db 533 TGAGAAAGTGGGTGCTCCTTCTATGAGTGAAATGTTGAAAGAAAGTACTTTCATGAGCA 592
Qy 425 ATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTGTCAGGTTCCAGGCCCTTG 484
Db 593 GTGTTAGAGGATGCCCCCTTAACAGAGCGAAGGCTCTGTGCTCCGAACTCCAGGGGCACTG 652
Qy 485 TGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGGCCATTTCAGAAATCTCATCAAGGAGGAAG 544
Db 653 TGGCCACTCCAGGAATGCTGAGGAAATAGGGCCATCCAGAAATGTGGCCAAAGATGTTG 712
Qy 545 CTTCTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGGAAATA 604
Db 713 CTTCTTGGGCATAACGGACACAGAGGACTGAAAACGTTTGTGAGGACCTGACAGGAAACA 772
Qy 605 GACTGACCTACACAAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCTGATGAAGATT 664
Db 773 GAGTGGCTACACTAACTGGAATGAGGGTGAGCCCAACAATGTGGGCTCTGGGGAAAACT 832
Qy 665 GTGTATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACCTCCCATCTGG 724
Db 833 GTGTGGTGTCTTTGACAAATGGGAAGTGAATGACGTTCCTTGTCTGCTGATTCCTTTTGG 892
Qy 725 CCGTCTGTGAGTTCCCTATCTGA 747
Db 893 TAGTTGTGAATTCCTGACTGA 915

RESULT 12
US-10-388-934-107
; Sequence 107, Application US/10388934
; Publication No. US20040005547A1
; GENERAL INFORMATION:
; APPLICANT: Boess, Franziska
; APPLICANT: Suter-Dick, Laura


```
; APPLICANT: Wolf, Detlef
; TITLE OF INVENTION: BIOMARKERS AND EXPRESSION PROFILES FOR TOXICOLOGY
; FILE REFERENCE: 21199
; CURRENT APPLICATION NUMBER: US/10/388,934
; CURRENT FILING DATE: 2003-03-14
; PRIOR APPLICATION NUMBER: 02005336.9
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 02015657.6
; PRIOR FILING DATE: 2002-07-17
; NUMBER OF SEQ ID NOS: 862
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 107
; LENGTH: 1068
; TYPE: DNA
; ORGANISM: Rattus sp.
US-10-388-934-107

Query Match      38.5%; Score 287.6; DB 17; Length 1068;
Best Local Similarity 58.1%; Pred. No. 2.6e-83;
Matches 417; Conservative 0; Mismatches 189; Indels 6; Gaps 1;

QY      142  GC A A A G A T G G G C T G A T G G C A C C A A G G G A G A A A G G G G A A C C A G G C C A A G G G C T C A G A      201
Db      142  G G C A A A G A T G G G C T G A T G G C A C C A A G G G A G A A A G G G G A A C C A G G C C A A G G G C T C A G A      201
QY      64   G G C A G A G A C G G G A G A G A T G G G C C C A A A A G G G G A G A G A A C C A G T C A A G G G C T C A G G      123
Db      64   G G C A G A G A C G G G A G A G A T G G G C C C A A A A G G G G A G A G A A C C A G T C A A G G G C T C A G G      123
QY      202  G G C T T A C A G G G C C C C C T G G A A A G T T G G G C C T C C A G G A A T C C A G G C C T T C T G G T C A      261
Db      202  G G C T T A C A G G G C C C C C T G G A A A G T T G G G C C T C C A G G A A T C C A G G C C T T C T G G T C A      261
QY      124  G G C T T G C A G G G C C C T C C A G G A A C T G G G C C T C C A G G A A G T G T A G G A G C C C T G G A A G T      183
Db      124  G G C T T G C A G G G C C C T C C A G G A A C T G G G C C T C C A G G A A G T G T A G G A G C C C T G G A A G T      183
QY      262  C C A G G A C C A A A G G G C C A A A A A G G A G A C C C T G G A A A A A G T C C G G A T G G T G A T A G T A G C C T G      321
Db      262  C C A G G A C C A A A G G G C C A A A A A G G A G A C C C T G G A A A A A G T C C G G A T G G T G A T A G T A G C C T G      321
QY      184  C A A G G A C C A A A A G G C C A A A A A G G G A T C G T G G A G A C A G A G C C A T T G A G G T G A A G C T G      243
Db      184  C A A G G A C C A A A A G G C C A A A A A G G G A T C G T G G A G A C A G A G C C A T T G A G G T G A A G C T G      243
QY      322  G C - - - - - T G C C T C A G A A A A A A A G C T C T G C A A A C A G A A A T G G C A C G T A T C A A A A A G T G G      375
Db      322  G C - - - - - T G C C T C A G A A A A A A A G C T C T G C A A A C A G A A A T G G C A C G T A T C A A A A A G T G G      375
QY      244  G C A A A T A T G G A G G C A G A G A T A A A C A C C C T G A A G T C A A A A C T G G A G C T A A C C A A C A A G T T G      303
Db      244  G C A A A T A T G G A G G C A G A G A T A A A C A C C C T G A A G T C A A A A C T G G A G C T A A C C A A C A A G T T G      303
QY      376  C T G A C C T T C T C T G G G C A A A C A A G T T G G G A C A A A G T T C T C C T G A C C A A T G G T G A A A T A      435
Db      376  C T G A C C T T C T C T G G G C A A A C A A G T T G G G A C A A A G T T C T C C T G A C C A A T G G T G A A A T A      435
QY      304  C A T G C C T T C C A A A G T A A A A A G T C T G G A A A A G T T C T T T G T G A C C A A C C A T G A A A G G      363
Db      304  C A T G C C T T C C A A A G T A A A A A G T C T G G A A A A G T T C T T T G T G A C C A A C C A T G A A A G G      363
QY      436  A T G A C C T T T G A A A A G T G A A G G C C T T G T G T C A A G T T C C A G G C C T C T G T G G C C A C C C C      495
Db      436  A T G A C C T T T G A A A A G T G A A G G C C T T G T G T C A A G T T C C A G G C C T C T G T G G C C A C C C C      495
QY      364  A T G C C C T T T T C C A A A G T C A A G G C C C T G T G T C A G A G C T C C G A G G C A C T G T G G C T A T C C C C      423
Db      364  A T G C C C T T T T C C A A A G T C A A G G C C C T G T G T C A G A G C T C C G A G G C A C T G T G G C T A T C C C C      423
QY      496  A G G A A T G C T G C A G A G A A T G G A G C C A T T C A G A A T C T C A T C A A G G A G G A A G C C T T C C T G G G C      555
Db      496  A G G A A T G C T G C A G A G A A T G G A G C C A T T C A G A A T C T C A T C A A G G A G G A A G C C T T C C T G G G C      555
QY      424  A G G A A T G C T G A G G A G A C A A G G C C A T C C A A G A A G T G G T A A A A C C T C T G C C T T C C T A G G C      483
Db      424  A G G A A T G C T G A G G A G A C A A G G C C A T C C A A G A A G T G G T A A A A C C T C T G C C T T C C T A G G C      483
QY      556  A T C A C T G A T G A G A G A C A G A A G G G C A G T T T G T G G A T C T G A C A G G A A A T A G A C T G A C C T A C      615
Db      556  A T C A C T G A T G A G A G A C A G A A G G G C A G T T T G T G G A T C T G A C A G G A A A T A G A C T G A C C T A C      615
QY      484  A T C A C G G A C G A G G T G A C T G A A G G C C A A T T C A T G T A T G A C A G G G G G A G G C T C A C C T A C      543
Db      484  A T C A C G G A C G A G G T G A C T G A A G G C C A A T T C A T G T A T G A C A G G G G G A G G C T C A C C T A C      543
QY      616  A C A A A C T G G A A C G A G G G T G A A C C C A A C A A T G C T G G T T C T G A T G A A G A T T G T C T A T T G C T A      675
Db      616  A C A A A C T G G A A C G A G G G T G A A C C C A A C A A T G C T G G T T C T G A T G A A G A T T G T C T A T T G C T A      675
QY      544  A G C A A C T G G A A A A G G A T G A G C C C A A T G A C C A T G G C T C T G G G A A G A C T G T G T C A C T A T A      603
Db      544  A G C A A C T G G A A A A G G A T G A G C C C A A T G A C C A T G G C T C T G G G A A G A C T G T G T C A C T A T A      603
QY      676  C T G A A A A A T G G C C A G T G G A A T G A C G T C C C C T G C T C C A C C T C C C A T C T G G C C G T C T G T G A G      735
Db      676  C T G A A A A A T G G C C A G T G G A A T G A C G T C C C C T G C T C C A C C T C C C A T C T G G C C G T C T G T G A G      735
QY      604  G T A G A C A A C G G T C T G T G G A A T G A C A T C T C C T G C C A A G C T T C C C A C A C G G C T G T C T G C G A G      663
Db      604  G T A G A C A A C G G T C T G T G G A A T G A C A T C T C C T G C C A A G C T T C C C A C A C G G C T G T C T G C G A G      663
QY      736  T T C C C T A T C T G A      747
Db      736  T T C C C A G C C T G A      675

RESULT 13
US-09-960-352-11785
; Sequence 11785, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
```

```
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 11785
; LENGTH: 419
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 50-LIB34-061-Q1-E1-E6
US-09-960-352-11785

Query Match      29.7%; Score 222; DB 9; Length 419;
Best Local Similarity 78.3%; Pred. No. 6e-62;
Matches 307; Conservative 0; Mismatches 75; Indels 10; Gaps 3;

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Db      31   A T G T C G C T G T T T A C A T C A C A T T C C T T T T C T T C T C T C T G A C A G C A T C T T G T G C A      90
QY      56   - A C T C A G A A A C T G T G A C C T G T G A G G A T G C C C A A A G A C C T G C C C T G C A G T G A T T G C C T G T      114
Db      91   G A C A C A G A A C A G A G A A C T G T G A G A A C A T C C G G A A G A C C T G C C - - - C C G T G A T T G C C T G T      147
QY      115  A G C T C T C C A G G C A T C A A C G G C T T C C C A G G C A A A G A T G G G C G T G A T G G C A C C A A G G G A G A A      174
Db      148  G G T C T C C G G C A T C A A T G S C A T C C C A G G C A A A G A T G G G C G T G A T G G T G C C A A G G G A G A A      207
QY      175  A A G G G G A A C C A G G C C A A G G G C T C A G A G G C T T A C A G G C C C C C C C T G G A A A G T T G G G C C T      234
Db      208  A A G G A G A A C C A G G T C A A G G A C T C A G A G G C T C G C A G G C C C C C C T G G A A A G A T G G G C C T      267
QY      235  C C A G G A A A T C C A G G G C C T T C G G G T C A C C A G G A C C A A A G G C C C A A A A A G G A G A C C C T G G A      294
Db      268  C A A G G A A C C C A G G A T C C C T G G G A T A C C A G G A C C A A T A G G C C A A A A A G G A G A C C C C T G G A      327
QY      295  A A A A G T C C G G A T G G T G A T A G A C C T G G C T G G C C T C A G A A A - G A A A A G C T C T G C A A A C A G A      353
Db      328  G A A A A T A T G G T G A C T A T A T T C G C C T G G C T A C C T T A A A A A G G A G C A A T T C T A C A A T C T G A      387
QY      354  A A T G G C A C G T A T C A A A A A A G T G G C T G A C C T T C T      385
Db      388  A T T G A A C C A G A T C A A A A A A C T G G C T A A T C T T C T      419

RESULT 14
US-10-450-472-58
; Sequence 58, Application US/10450472
; Publication No. US20040132094A1
; GENERAL INFORMATION:
; APPLICANT: Borean Pharma A/S
; TITLE OF INVENTION: Combinatorial libraries of proteins having the scaffold structure
; TITLE OF INVENTION: of C-type lectin-like domains
; FILE REFERENCE: BOR00003/WO
; CURRENT APPLICATION NUMBER: US/10/450,472
; CURRENT FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 58
; LENGTH: 405
; TYPE: DNA
; ORGANISM: Rattus rattus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(400)
; OTHER INFORMATION: Rat PrMBP insert
US-10-450-472-58

Query Match      24.9%; Score 186.2; DB 19; Length 405;
Best Local Similarity 68.5%; Pred. No. 3.4e-50;
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Matches	257; Conservative	0; Mismatches	118; Indels	0; Gaps	0;
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Db	19	CAACAAGTTGCATGCCCTTCTCCATGGGTAAAAAGTCTGGGAAGAAGTTCTTGTGACCAA	78		
QY	426	TGGTGAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTCCAGGCCCTCTGT	485		
Db	79	CCATGAAGGATGCCCTTTTCCAAAAGTCAAGGCCCTGTGCTCAGAGCTCCGAGGCACCTGT	138		
QY	486	GGCCACCCCGGAATGCTGCAGAGAATGGAGCCATTCAAGTCTCATCAAGGAGGAAGC	545		
Db	139	GGCTATCCCCAAGAATGCTGAGGAGAACCAAGGCCATCCAAAGAATGGCTAAACCTCTGC	198		
QY	546	CTTCTCTGGGCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTGACAGGAATAAG	605		
Db	199	CTTCTTAGGCATCACGGACGAGGTGACTGAAGGCCAATTATGTATGTACAGGGGGAG	258		
QY	606	ACTGACCTACACAACTGGAAACGAGGTGAACCCAAACAATGTGGTTCTGATGAAGATTG	665		
Db	259	GCTCACCTACAGCAACTGGAAAAAGGATGAGCCCAATGACCATGGCTCTGGGAAGACTG	318		
QY	666	TGTATTGCTACTGAAAAATGSCCAGTGAATGACGTCCCTCTGCTCCACCTCCCATCTGGC	725		
Db	319	TGTCACATATAGTACAACGGTCTGTGGAATGACATCTCTGCCAAGCTTCCACACGGC	378		
QY	726	CGTCTGTGAGTTCCC	740		
Db	379	TGTCTCGAGTTCCC	393		

RESULT 15

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US-10-070-415A-45
; Sequence 45, Application US/10070415A
; Publication No. US20040043379A1
; GENERAL INFORMATION:
; APPLICANT: HASHIMOTO, Koji
; APPLICANT: ASHIMOTO, Michie
; APPLICANT: MISHIRO, Shunji
; APPLICANT: OOTA, Yasuhiko
; TITLE OF INVENTION: DETECTION OF NUCLEIC ACID ASSOCIATED WITH DISEASE
; FILE REFERENCE: 220633US2SRDPT
; CURRENT APPLICATION NUMBER: US/10/070,415A
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: PCT/JP02/02030
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: JP 2001-090053
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: JP 2001-284112
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
; LENGTH: 1802
; TYPE: DNA
; ORGANISM: Homo sapiens
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; NAME/KEY: misc_feature
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/note="Organ: liver; Vector: pDONR 222; Site_1: BsrG I;
Site_2: BsrG I; Created from CloneMiner cDNA Library
Construction kit (catalog #18249-029)"

ORIGIN
Query Match      86.3%;   Score 644.6;   DB 7;   Length 968;
Best Local Similarity 93.2%;   Pred. No. 5.6e-173;
Matches 696;   Conservative 0;   Mismatches 49;   Indels 2;   Gaps 2;

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94  ATGTCCCTGTTTCCATCACTCACTCTCCTTCTCCTGAGTGTGGTGGCAACATCTTACTCA 153
QY|||||
61  GAAACTGTGACCTGTGAGGATGCCCCAAAGACCTGCCCTGCAGTGAATGGCCTGTAGCTCT 120
Dbb|||||
154  GAAACTGTGACCTGTGAGGATTCCTCCAAAGATCTGCCCTGCGGIGATGCTGTAACCTCC 213
QY|||||
121  CCAGGCATCAACGGCTTCCAGGCAAGATGGCGGTGATGGCACCAAGGAGAGAAAAGGGG 180
Dbb|||||
214  CCAGGCATCAACGGCTTCCAGGCAAGATGGCGGTGATGGCACCAAGGAGAGAAAAGGGG 273
QY|||||
181  GAACGAGCCCAAGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCTCCAGGA 240
Dbb|||||
274  GAACGAGCCCAAGGCTCAGAGGTTTACAGGGCCCTCCAGGAAAGTTGGGGCCTCCAGGA 333
QY|||||
241  AATCCAGGGCTTCTGGTCAACGAGCAAGGGCCAAAGAGGAGAGACCTGGAAAAAGT 300
Dbb|||||
334  AATCCAGGGTCTTCTGGTCAACGAGCAAGGGCCAAAGGGCCAAAGAGGAGACCTGGAGAGT 393
QY|||||
301  CCGGATGGTGATAGTAGCTGGCTGCCCTCAGAAAGAAAAGCTCTGCAACAGAGAAATGGCA 360
Dbb|||||
394  CCAGATTGTGAGAGTAGCTGGCTGCCCTCAGAAAGAAAAGCTCTGCAACAGAGAAATGGCT 453
QY|||||
361  CGTATCAAAAAGTGGCTGACCTTCTCTGCGGCAACAAAGATTGGGAACAAGTCTTCTCTG 420
Dbb|||||
454  CGTATCAAAAAGTGGCTGACCTTCTCTGCGGCAACAAAGATTGGGAACAAGTCTTCTCTG 513
QY|||||
421  ACCAATGGTGAATAATACCTTTGAAAAGTGAAGGCTTGTGTGTCAAGTTCAGGGCC 480
Dbb|||||
514  ACTAATGGTGAATAATGATGACCTTTGACAAAGTGAAGGCCCTGTGTGCCGAGTTTCAGGCC 573
QY|||||
481  TCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAACTCTCATCAAGGAG 540
Dbb|||||
574  TCTGTGGCCACCCCGAGGAATGCTGCAGAGAAACAGAGCCATCCAGAACTCATCAAGGAG 633
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634  GAAGCCTTCTGGGCATCACTGATGAGAAACACAGAAAGGGAGTTTGTAGATCTGACAGGA 693
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601  AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCAAACAATGCTGGTTCTGATGAA 660
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694  AATAAATGACCTACACAAACTGGAACGATGGTGAGCCC-ACAAATGCTGGTTCTAATGAG 752
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661  GATTGTGATTGCTACTGAAAAATGCGCAGTGGAAATGACGTCCCTCTGCTCCACCTCCCAT 720
Dbb|||||
753  AACTGTGATTGTTACTG-AAATGGCAAGTGAATGACATCCCTGCTCTCTCTTCCCAT 811
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721  CTGGCCGCTGTGAGTTCCCTATCTGA 747
Dbb|||||
812  CTGGCCCTCTGCGATTTCCTCTATCTGA 838

RESULT 5
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LOCUS      CO738739      807 bp      mRNA      linear      EST 29-JUL-2004
DEFINITION SLLE04c21f10f1 squirrel embryo library 1 Sperophilus lateralis
            cDNA clone 21f10 5', mRNA sequence.
ACCESSION  CO738739
VERSION    CO738739.1  GI:50826009
KEYWORDS   EST.
SOURCE     Sperophilus lateralis (golden-mantled ground squirrel)
            Sperophilus lateralis
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Scuridae; Scurinae;
            Sperophilus.
REFERENCE  1 (bases 1 to 807)
AUTHORS   Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W.,
            Rogers,J. and Cossins,A.R.
TITLE     Microarray analysis of transcriptional changes during hibernation
            in the golden mantled ground squirrel, Sperophilus lateralis
JOURNAL   Unpublished (2004)
COMMENT   Contact: Andrew R. Cossins
            Laboratory for Environmental Gene Regulation
            University of Liverpool
            School of Biological Sciences, The Biosciences Building, Crown
            Street, Liverpool, United Kingdom, L69 7ZB
            Tel: +44(0)151-795-4510
            Fax: +44(0)151-795-4431
            Email: cossins@liv.ac.uk
            Vector has been trimmed from this EST.
            Plate: 21 row: f column: 10
            Seq primer: pf1c T7 (5'-AATACGACTCACTATAGGG-3')
            High quality sequence stop: 807.
FEATURES   Location/Qualifiers
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               GGATCC; Normalized and subtracted cDNA library_prepared
               from embryos"

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Query Match      52.8%;   Score 394.4;   DB 7;   Length 807;
Best Local Similarity 73.5%;   Pred. No. 2.3e-101;
Matches 548;   Conservative 0;   Mismatches 186;   Indels 12;   Gaps 3;

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64  ATGTTCTCTGTTTCCATTACTCCCTGCTCTTCTCCTGAGTGTGGTGACAGTGGC---CTCA 120
QY|||||
61  GAAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGATTGCTGTAGCTCT 120
Dbb|||||
121  GAAACAAAACATGTGAGGATGCCCAAGAACCTGCTCT---GTGATTACCTGTGGGATC 177
QY|||||
121  CCAGGCATCAACGGCTTCCCAGGCAAGATGGCGGTGATGGCACCAAGGGAGAGAAAGGGG 180
Dbb|||||
178  CCTGTCAACCAACGGCACTCCAGGCAGAGATGGCGGAGATGGACTCAAGGGAGAGAAAGGGA 237
QY|||||
181  GAACGAGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTTGGAAAGTTGGGGCCTCCAGGA 240
Dbb|||||
238  GAGCCAGGTCAAGGGCTCAGAGGTTTGAGGGCCCTCCAGGGAACCTGGGGCCTCCAGGA 297
QY|||||
241  AATCCAGGGCCTTCTGGGTCAACGAGCAACAAAGGGCCAAAAGAGACCTTGGAAAAAGT 300
Dbb|||||
298  AATACAGGGGGCGCTGGGGCTCCAGGACCAAGAGGCCAAAAGAGATCGTGGAGATAGT 357
QY|||||
301  CCGGATGGTGATAGTATGCTGGCTTGGCTGCCTCAGAAAG-----AAAAGCTTCGCAACAGAA 354
Dbb|||||
358  TCGGCTGCTGAGACTAAACTGGCTAACTTAGAGAGAGAGATAAGGAACCTGAAATCAGAA 417
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JOURNAL Proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)
MEDLINE 21625106
PUBMED 11752456
COMMENT Contact: Zequang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919 (ex.45)
Fax: 86-21-50801922
Email: hanzg@chgc.sh.cn
This clone is available at CHGC in Shanghai.

FEATURES
source
1. .367
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/db_xref="taxon:9606"
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/note="Vector: pBluescript sk(-); Site_1: EcoRI; Site_2: XhoI"

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Query Match 40.6%; Score 303; DB 1; Length 367;
Best Local Similarity 87.2%; Pred. No. 2.6e-75;
Matches 367; Conservative 0; Mismatches 0; Indels 54; Gaps 1;
QY 174 AAAGGGGAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCC 233
DB 1 AAAGGGGAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCC 60
QY 234 TCCAGGAAATCCAGGGCCTTCTGGGTCAACAGGACAAAGGGCCAAAGAGACCCCTGG 293
DB 61 TCCAGGAAATCCAGGGCCTTCTGGGTCAACAGGACAAAGGGCCAAAGAGACCCCTGG 120
QY 294 AAAAGTCCGGATGTTGATAGTAGCTGGCTGCCTCAGAAAGAAAGCTCTGCAACAGA 353
DB 121 AAAAGTCCGGATGTTGATAGTAGCTGGCTGCCTCAGAAAGAAAGCTCTGCAACAGA 180
QY 354 AATGGCAGTATCAAAAAGTGGCTGACCTTCTCTGGGCAAAACAAGTTGGGAACAAGTT 413
DB 181 AATGGCAGTATCAAAAAGTGGCTGACCTTCTCTGGGCAAAACAAGTTGGGAACAAGTT 240
QY 414 CTTCTGACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCCTTGTGTGTCAAAGTT 473
DB 241 CTTCTGACCAATGGTGAATAATGACCTTTG----- 272
QY 474 CCAGGCCTCTGTGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCAT 533
DB 273 -----ATGCTGCAGAGAAATGGAGCCATTTCAGAAATCTCAT 306
QY 534 CAAGGAGGAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCT 593
DB 307 CAAGGAGGAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCT 366
QY 594 G 594
DB 367 G 367

RESULT 11
AI255533
LOCUS
DEFINITION ui55f12.y1 Sugano mouse liver mlia Mus musculus cDNA clone
IMAGE:1886351 5', similar to gb:D11440 Mouse mRNA for p28a subunit
of Ra-reactive factor, complete (MOUSE);, mRNA sequence.
ACCESSION AI255533
VERSION AI255533.1 GI:3863058
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE
AUTHORS

TITLE
JOURNAL
COMMENT

FEATURES
source

ORIGIN

Query Match 40.5%; Score 302.2; DB 1; Length 657;
Best Local Similarity 71.5%; Pred. No. 5.4e-75;
Matches 397; Conservative 0; Mismatches 158; Indels 0; Gaps 0;
QY 101 CAGTGATTGCGCTGTAGCTCTCCAGGCATCAACGGCTTCCAGGCAAAAGATGGCGTGATG 160
DB 19 CTGTGGTTACCTGCAGTTCTCCAGGCCTGAATGGCTTCCAGGCAAAAGATGGACGTGACG 78
QY 161 GCACCAAGGAGAAAAAGGGGAACACAGGCCAACAGGCTCAGAGGCTTACAGGGCCCCCTG 220
DB 79 GTGCCAAGGAGAAAAAGGGAGAACCCAGGTCAAGGGCTCAGAGGCTTGCAGAGGCCCTCTG 138
QY 221 GAAAGTTGGGGCCTCCAGGAAATCCAGGCGCTTCTGGGTCAACAGGACCAAGGGCCAAA 280
DB 139 GAAAAGTAGGACCTACAGGACCCCGAGGAATCCGGGGTTAAAGAGCAGTGGGACCGA 198
QY 281 AAGGAGACCTCGAAAAAGTCCGGATGTCATAGTAGCTGGCTGCTCAGAAAAAGAAAG 340
DB 199 AAGGAGACCGTGGGACAGAGCAGAAATTTGATACTAGCGAAATGATTCAGAAATTGCAG 258
QY 341 CTCTGCAAAACAGAAATGGCAGCTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAG 400
DB 259 CCCTACGATCAGAGCTGAGAGCCCTGAGAAACTGGGTGCTCTTCTCTCTGAGTGAAAAAG 318
QY 401 TTGGGAACAAGTTCTTCTCTGACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCT 460

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 657)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.
The WashU-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:970675

Seq primer: custom primer used
High quality sequence stop: 488.
Location/Qualifiers
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/clone="IMAGE:1886351"
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/clone_lib="Sugano mouse liver mlia"
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(CACTGTGTG); Site 2: DraIII (CACCATGTG); 1st strand cDNA
was primed with an oligo(dT) primer
[ATGTGGCCTTTTCTTTTCTTTT]; double-stranded cDNA was
ligated to a DraIII adaptor [TGTGGCCTACTGG], digested
and cloned into distinct DraIII sites of the pME18S-FL3
vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
be used to isolate the cDNA insert. Size selection was
performed to exclude fragments <1.5kb. Library
constructed by Dr. Sumio Sugano (University of Tokyo
Institute of Medical Science). Custom primers for
sequencing: 5' end primer CTTCTGCTCTAAAGCTGCG and 3' end
primer CGACCTGCAGCTCGAGCACA."

Db 319 TTGGAAGAAGTATTTTGTGACGAGTGTAAAGATGAGCCTTGACAGAGTGGAAGGCC 378
QY 461 TGTGTGTCAGGTTCCAGGCTCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGAGGCCA 520
Db 379 TGTGCTCCGAATTCAGGGCTCTGTGGCCACTCCAGGAATGCTGAGGAAACTCGGCCA 438
QY 521 TTCAGAATCTCATCAGGAGGAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAGGGC 580
Db 439 TCCAGAAAGTGGCCAAAGATATTGCCTACTTGGGCATCACAGATGTGAGGGTTGAAGGCA 498
QY 581 AGTTTGTGGATCTGACAGGAATAGACTGACCTACACAACTGGAACGAGGGTGAACCCA 640
Db 499 GCTTTGAGGATCTGACAGGAACAGAGTGCCTATTCTTAATGGAATGGATGGGAACCCC 558
QY 641 ACAATGCTGTTCTG 655
Db 559 ACACCACGGCGATG 573

RESULT 12
AY325174 1162 bp mRNA linear HTC 26-JUL-2003
LOCUS Rattus norvegicus Ab2-011 mRNA, complete cds.
DEFINITION AY325174
ACCESSION
VERSION AY325174.1 GI:33086525
KEYWORDS HTC.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 1162)
AUTHORS Xu,C.S., Li,W.Q., Li,Y.C., Han,H.P., Wang,G.P., Chai,L.Q.,
Yuan,J.Y., Yang,K.J., Yan,H.M., Chang,C.F., Zhao,L.F., Ma,H.,
Wang,L., Wang,S.F., Shi,J.B., Rahman,S., Wang,Q.N. and Zhang,J.B.
TITLE Liver regeneration after PH
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1162)
AUTHORS Xu,C.S., Li,W.Q., Li,Y.C., Han,H.P., Wang,G.P., Chai,L.Q.,
Yuan,J.Y., Yang,K.J., Yan,H.M., Chang,C.F., Zhao,L.F., Ma,H.,
Wang,L., Wang,S.F., Shi,J.B., Rahman,S., Wang,Q.N. and Zhang,J.B.
TITLE Direct Submission
JOURNAL Submitted (16-JUN-2003) Henan Bioengineering Key Lab, Henan Normal
University, NO. 148 Jianshe Road, Xinxiang City, Henan 453002, P.R.
China

FEATURES
source Location/Qualifiers
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41. .1156
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/protein_id="AAP92575.1"
/db_xref="GI:33086526"
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PRNAENRAIQNVAKDVAFLGITDQRTENVFEDLTGNRVRYTNWGRSLRGLPELHG
PAASVYVTPSSDTEINIPPTETAKDGCALDPYEQSLIHAATESKANSENQHYTLEK
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ORIGIN
Query Match 40.3%; Score 301.4; DB 3; Length 1162;
Best Local Similarity 70.6%; Pred. No. 1.le-74;
Matches 401; Conservative 0; Mismatches 167; Indels 0; Gaps 0;
QY 65 CTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCACTGATTGCCTGTAGCTTCCAG 124
Db 93 CCGAGACCTTAACCGAAGGGGCTCAAAGTAGCTGCCCTGTGATTGCCTGCAGTTCTCCGG 152

QY 125 GCATCAACGGCTTCCAGGCAAAGATGGCGTGTGATGGCAACCAAGGAGAAAAGGGGAAC 184
Db 153 GCCTGAACGGCTTCCAGGCAAAGATGGACACGAGCGTGCCAAAGGAGAAAAGGGGAAC 212
QY 185 CAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAAGTTGGGGCTCCAGGAAATC 244
Db 213 CGGGTCAAGGCCTCAGAGGCTTGCAGGGCCCTCTCTGGAAAAGTAGGACCTGCAGGCCCC 272
QY 245 CAGGGCCTTCTGGGTCAACAGGACCAAAAGGGCCCAAAAGGAGAGACCCTGGAAAAGTCCCG 304
Db 273 CAGGGAATCCTGGGTCAAAAGGAGCAACCGGACCAGAAAGGAGACCGTGGAGAGAGTAG 332
QY 305 ATGGTGTAGTAGCCTGCT 364
Db 333 AATTGTGATACTACCAACATTTGATTAGAAATTCAGAGCCCTCGATCGGAGCTGAGAGCTA 392
QY 365 TCAAAAAGTGGCTGACCTTCT 424
Db 393 TGAGAAAGTGGGTGCT 452
QY 425 ATGGTGAATAATGACCTTTGAAAAAGTGAAGCCCTTGTGTCTCAAGTTCCAGGCCCTCTG 484
Db 453 GTGTTAGAAGGATGCCCTTAAACAGAGCGAAGGCTCTGTGCTCCGAACTCCAGGGCACTG 512
QY 485 TGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCAATTCAGAAATCTCATCAAGGAGGAAG 544
Db 513 TGGCCACTCCAGGAATGCTGAGGAAAATAGGGCCATCCAGAAATGTGGCCAAAGATGTTG 572
QY 545 CCTTCTCTGGGCATCACTGATGAGAAGACAGAGGAGGAGGAGTTGTGGATCTGACAGGAAATA 604
Db 573 CCTTCTTGGGCATCAACGGACCAAGGAGGACTGAAAACGTTTGTGAGGACCTGCACAGGAAACA 632
QY 605 GACTGACCTACACAAACTGGAACGAGGG 632
Db 633 GAGTGGCTACACTAACTGGAATGAGGG 660

RESULT 13
AY325178 1162 bp mRNA linear HTC 26-JUL-2003
LOCUS Rattus norvegicus Ab2-001 mRNA, complete cds.
DEFINITION AY325178
ACCESSION AY325178.1 GI:33086533
KEYWORDS HTC.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 1162)
AUTHORS Xu,C.S., Li,W.Q., Li,Y.C., Ma,H., Wang,L., Wang,S.F., Han,H.P.,
Wang,G.P., Chai,L.Q., Yuan,J.Y., Yang,K.J., Yan,H.M., Chang,C.F.,
Zhao,L.F., Shi,J.B., Rahman,S., Wang,Q.N. and Zhang,J.B.
TITLE Liver regeneration after PH
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1162)
AUTHORS Xu,C.S., Li,W.Q., Li,Y.C., Ma,H., Wang,L., Wang,S.F., Han,H.P.,
Wang,G.P., Chai,L.Q., Yuan,J.Y., Yang,K.J., Yan,H.M., Chang,C.F.,
Zhao,L.F., Shi,J.B., Rahman,S., Wang,Q.N. and Zhang,J.B.
TITLE Direct Submission
JOURNAL Submitted (16-JUN-2003) Henan Bioengineering Key Lab, Henan Normal
University, NO. 148 Jianshe Road, Xinxiang City, Henan 453002, P.R.
China
FEATURES
source Location/Qualifiers
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41. .1156
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PRNAENRAIQNVAKDVAFLGITDQRTENVFEDLTGNRVRYTNWEGLSLRGPELHG
PAANSVYTPSSSDTENIPPTTEETAKDGCALDPYEQSLIHAATESKANSENQHYTLEK
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ORIGIN

Query Match	40.3%;	Score	301.4;	DB	3;	Length	1162;
Best Local Similarity	70.6%;	Pred.	No. 1.1e-74;				
Matches	401;	Conservative	0;	Mismatches	167;	Indels	0;
						Gaps	0;
QY	65	CTGTGACCTGTGAGGATGCCCAAAGACCTGCCCTGCAGTGATTCCTGTAGCTCTCCAG	124				
Db	93	CCGAGACCTTAACCGAAGGGCTCAAAGTAGCTGCCCTGTGATTGCCTGCAGTTCTCCGG	152				
QY	125	GCATCAACGGCTTCCAGGCAAGATGGCGTGTATGGCACCACCAAGGAGAGAAAGGGGAAC	184				
Db	153	GCCTGAACGGCTTCCAGGCAAGATGGACAGACGGTGCCAAGGAGAGAAAGGGAGAAC	212				
QY	185	CAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGCGCTCCAGAAATC	244				
Db	213	CGGGTCAAGGCCTCAGAGGCTTGCAGGGCCCCCTGCTGGAAAGTAGGACCTGCAGGGCCCC	272				
QY	245	CAGGGCCTTCTGGGTCAACGAGCACCAAGGGCCAAAAGGAGACCCCTGGAAAAGTCCGG	304				
Db	273	CAGGAATCCTGGTCAAAAGGAGCAACGGGACCAAAAGGAGACCCGTGGAGAGTGTAG	332				
QY	305	ATGGTGATAGTAGCCTTGCTCTCTGGGCAACAAAGCTCTGCAACACAGAAATGGCACGTA	364				
Db	333	AATTGTACTACTACCAACATTGATTTAGAAATTGCAGGCCCTCGATCGGAGCTGAGAGCTA	392				
QY	365	TCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAGTTCTTCCTGACCA	424				
Db	393	TCAGAAAGTGGTGCTCCTTCTATGAGTGAATAATGTTGGAAGAAGTACTTTCATGAGCA	452				
QY	425	ATGGTAAATAATGACCTTTGAAAAAGTGAAGGCCTTGTGTCTCAAGTTCCAGGCCTCTG	484				
Db	453	GTGTTAGAAGGATGCCCTTAAACAGACGGAAGGCTCTGTCTCCGAACCTCCAGGGCACTG	512				
QY	485	TGGCCACCCCCAGGAATGCTGCAGAGAATGGAGCCATTCAGAATCTCATCAAGGAGGAAG	544				
Db	513	TGGCCACTCCAGGAATGCTGAGGAAAATAGGGCCATCCAGAATGTGGCCAAAAGATGTTG	572				
QY	545	CCTTCCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTTGTGGATCTGACAGGAAATA	604				
Db	573	CCTTCTTGGGCATAACCGACCCAGGAGACTGAAAACGTTTTTGAGGACCTGACAGGAAACA	632				
QY	605	GACTGACCTTACACAAACTGGAACGAGGG	632				
Db	633	GAGTGGCTTACACTAACTGGAATGAGGG	660				

RESULT 14

AI195233/c	AI195233	869 bp	mRNA	linear	EST 14-OCT-1998
LOCUS	ui62c03.x1	Sugano mouse liver mlia	Mus musculus	cdna	clone
DEFINITION	IMAGE:1886980 3', similar to gb:X15422_cds1	MANNOSE-BINDING PROTEIN	C PRECURSOR (HUMAN);	gb:D11440	Mouse mRNA for P28a subunit of
					Ra-reactive factor, complete (MOUSE);, mRNA sequence.
ACCESSION	AI195233				
VERSION	AI195233.1	GI:3747839			
KEYWORDS	EST.				
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
REFERENCE	1 (bases 1 to 869)				
AUTHORS	Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,				

Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
The WashU-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:971304

Seq primer: custom primer used
High quality sequence stop: 428.

Location/Qualifiers

source

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/lab_host="DH10B"
/clone_lib="Sugano mouse liver mlia"
/note="Organ: liver; Vector: pME18S-FL3; Site_1: DraIII (CACTGTGTG); Site_2: DraIII (CACCATGTG); 1st strand cDNA was primed with an oligo(dT) primer [ATGTGGCCTTTTCTTTTCTTTT]; double-stranded cDNA was ligated to a DraIII adaptor [TGTGGCCTACTGG], digested and cloned into distinct DraIII sites of the pME18S-FL3 vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should be used to isolate the cDNA insert. Size selection was performed to exclude fragments <1.5kb. Library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTCTGCTCTAAAAGCTGCG and 3' end primer CGACCTGCAGCTCGAGCACAC."

ORIGIN

Query Match	39.1%;	Score	292.4;	DB	1;	Length	869;
Best Local Similarity	67.0%;	Pred.	No. 3.8e-72;				
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						Gaps	1;
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Db	805	AGTTCTCAAGGCCTGAATGCCTTACCNAGCAAAGATGGGACGTNACGGTGTCAAAGGGAGAA	746				
QY	175	AAGGGGAACCAAGGCCCTCAGAGGCTTACAGGGCCCCCTTGAAAAGTTGGGGCCT	234				
Db	745	AAGGAAGAAGCAGGTCAAGGGCTCAGATGGCTTGCAAGGCCCTCTGNNAAAGATGAGACG	686				
QY	235	CCAGGAAATCCAGGGCCTTCTGGGTCACCAAGGACCAAGGGCCAAAAGGAGACCCCTGGA	294				
Db	685	TACAGGACCCNCAGGGAATCGGGGTTAAAGGAGCAGTGTACCGAAAAGGAGACCGTGNG	626				
QY	295	AAAAGTCCGGATGGTATAGTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAA	354				
Db	625	GACAGAGCAGAAATTGATACCTAGCGAAATGATTGAGAAATTCAGAGCCCTACGATCAGAG	566				
QY	355	ATGGCAGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAAGTTC	414				
Db	565	CTGAGAGCCCTGAGAAAGTGGTGCTCTCTCTCTGAGTGANAAG-TGGAAGAAGTAT	507				
QY	415	TTCTTGACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCCCTTGTGTCAAGTTC	474				
Db	506	TTTGTGAGCAGTGTAAAAAAGATGAGCCTTGACAGAGTGAAGGCCCTGTGCTCCGAATTC	447				
QY	475	CAGGCCTCTGTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTGAGAATCTCATC	534				

Db	446	CAGGGCTCTGTGGCCACTCCAGGAATGCTGAGGAAACTCGGCCATCCAGAAAGTGGCC	387
QY	535	AAGGAGGAAGCCTTCCTGGGCATCACTGATGAGAAGACAGAAGGGCAGTTTGTGGATCTG	594
Db	386	AAAGATATTGCCTACTTGGGCATCACAGATGTGAGGGTTGAAGGCAGTTTGTAGGATCTG	327
QY	595	ACAGGAAATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCAAACAATGCTGGTTCT	654
Db	326	ACAGGAAACAGAGTGCCTATATAATTGAATGATGGGAGCCCAACAACACGGGCGAT	267
QY	655	GATGAAGATTGTGTATTGCTACTGAAAAATGGCCAGTGAATGACGTCCCTGCTCCACC	714
Db	266	GGGGAAGACTGTGTGGTGATCTTGGGAATGGCAAGTGAACGATGTCCCCTGCTCTGAC	207
QY	715	TCCCATCTGGCCGCTCTGTGAGTTCCTTATCTGA	747
Db	206	TCTTTTGGCAATCTGTGAATTCTCTGACTGA	174
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AV660367			
LOCUS			
DEFINITION AV660367 GLC Homo sapiens cDNA clone GLCGH07 3', mRNA sequence.			
ACCESSION AV660367			
VERSION AV660367.1 GI:9881381			
KEYWORDS EST.			
SOURCE Homo sapiens (human)			
ORGANISM Homo sapiens			
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
AUTHORS Xu,X., Huang,J., Xu,Z., Qian,B., Zhu,Z., Yan,Q., Cai,T., Zhang,X., Xiao,H., Qu,J., Liu,F., Huang,Q., Cheng,Z., Li,N., Du,J., Hu,W., Shen,K., Lu,G., Fu,G., Zhong,M., Xu,S., Gu,W., Huang,W., Zhao,X., Hu,G., Gu,J., Chen,Z. and Han,Z.			
TITLE Insight into hepatocellular carcinogenesis at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver			
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)			
MEDLINE 21625106			
PUBMED 11752456			
COMMENT Contact: Zeguang Han Chinese National Human Genome Center at Shanghai 351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201203, P. R. China Tel: 86-21-50801919 (ex.45) Fax: 86-21-50801922 Email: hanzg@chgc.sh.cn This clone is available at CHGC in Shanghai.			
FEATURES			
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ORIGIN			
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Matches 366; Conservative 0; Mismatches 0; Indels 55; Gaps 2;			
QY	174	AAAGGGGAACACAGGCCAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTGGGGCC	233
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QY	234	TCCAGGAAATCCAGGGCCTTCTGGGTCAACGAGCCAAAGGGCCAAAAGGAGACCCTGG	293

Db	61	TCCAGGAAATCCAGGGCCTTCTGGGTCAACGAGCCAAAGGGCCAAAAGGAGACCCTGG	120
QY	294	AAAAAGTCCGGATGGTGATAGTAGCCCTGGCTGCCTCAGAAAAGAAAGCTCTGCAAAACAGA	353
Db	121	AAAAAGTCCGGATGGTGATAGTAGCCCTGGCTGCCTCAGAAAAGAAAGCTCTGCAAAACAGA	180
QY	354	AATGGCACGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCACAAACAAGTTGGGAACAAGTT	413
Db	181	AATGGCACGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCACAAACAAGTTGGGAACAAGTT	240
QY	414	CTTCCTGACCAATGGTGAATAATGACCTTTTGAATAAGTGAAGGCCCTTGTGTCTCAAGTT	473
Db	241	CTTCCTGACCAATGGTGAATAATGACCTTTG	272
QY	474	CCAGGCCTCTGTGGCCACCCCCAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCAT	533
Db	273	-----ATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCAT	306
QY	534	CAAGGAGGAAGCCTTCTCTGGGCATCACTGATGAGAAGACAGAAAGGCAGTTTGTGGATCT	593
Db	307	CAAGGAGGAAGCCTTCTCTGGGCATCACTGATGAGAAGACAGAAAGGCAGTTTGTGGATCT	365
QY	594	G 594	
Db	366	G 366	

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Job time : 3230 secs

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